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Salmonella Serotype Enteritidis Infections Among Workers Producing Poultry Vaccine — Maine, November-December 2006

On November 15, 2006, the Maine Department of Health and Human Services (MDHHS) was notified of a case of salmonellosis (a nationally notifiable disease) in an employee of a facility that produced poultry vaccine. When a second case of salmonellosis in another employee at the same facility was reported on November 25, MDHHS began an outbreak investigation. Results of that investigation suggested that 21 employees of the facility became ill during a 1-month period from exposure to a strain of Salmonella serotype Enteritidis (SE) that was used in vaccine production. Infection was thought to have resulted from environmental contamination after the spill of a liguid containing a high concentration of SE. As a result, MDHHS recommended that the facility improve its infection-control procedures to better protect workers. This outbreak highlights occupational risks that can be associated with the manufacture of veterinary biologics involving human pathogens.

The vaccine-production facility is located in a town of approximately 8,000 persons in central Maine, has 74 employees, and manufactures viral and bacterial vaccines for poultry. The facility had been last inspected in August 2005 by staff members of the U.S. Department of Agriculture's (USDA's) Center for Veterinary Biologics, which regulates animal vaccine-production facilities. The facility maintains stock cultures of four phage types of SE (8, 14B, 23, and 24) for vaccine production.

On November 9, 2006, a spill of approximately 1–1.5 liters of liquid occurred in the fermentation room of the production area of the facility; the liquid contained 2 x 10^{10} to 5 x 10^{10} colony forming units per milliliter of SE phage type 8. The room was unoccupied at the time the spill occurred. The one worker who was regularly assigned to this room reported finding liquid overflowing onto the

floor from the fermentation apparatus when he entered the room, wearing personal protective equipment (PPE) (e.g., biohazard suit, hat, booties, mask, and gloves). He cleaned up the spill using a mop, a 5% bleach solution, and a commercial disinfectant effective against SE. The mop was autoclaved before disposal in a room 30 feet away (room A) used for cleaning and sterilizing laboratory supplies and equipment for vaccine production. The facility did not have a written spill procedure or a spill clean-up kit. On November 15, the worker who cleaned up the spill had diarrhea of 1 day's duration. He did not miss work, seek medical care, or submit a stool specimen for culture.

On December 13, a total of 67 (91%) of the 74 employees were interviewed at the facility by MDHHS staff members using a standard questionnaire. A case of diarrheal illness was defined as three or more loose or watery stools in a 24-hour period since November 1. Twenty-one (31%) of the 67 employees interviewed had illness that was consistent with the case definition, with onset ranging from November 8 to December 11 (Figure). The employee with the earliest date of onset of illness was unable to recall the exact day she became ill. When interviewed on November 29, she reported becoming ill approximately 3 weeks earlier; therefore, her illness onset date was recorded as November 8.

INSIDE

- 880 National, State, and Local Area Vaccination Coverage Among Children Aged 19–35 Months — United States, 2006
- 885 National Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2006
- 888 Notice to Readers
- 889 QuickStats

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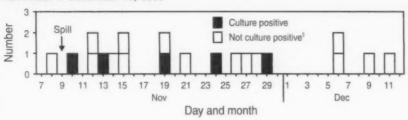
In addition to diarrhea, patients reported fatigue (86%), cramps (86%), body aches (71%), nausea (62%), headache (57%), chills (57%), fever (43%), vomiting (43%), and blood in stool (29%); none of the employees were hospitalized. No secondary cases in family members were identified. Five of eight stool specimens from eight patients submitted for culture were positive for SE. Among 33 workers in the production area, 18 (55%) had illness consistent with the case definition, compared with three (9%) of 34 workers in other areas of the facility (relative risk: 6.2; 95% confidence interval = 2.0-19.0). When analysis was restricted to workers in the production area, the strongest association with illness was working in room A. Eighteen (69%) of 26 employees who worked in room A (including those who did so intermittently) became ill, compared with none of the seven production-area workers who did not work in room A (p=0.002). During multiple visits to the facility, investigators noted inadequate handwashing and lack of PPE. Aside from working in room A, none of the exposures examined were significantly associated with illness.

On November 30, staff members collected 15 environmental swab specimens from the production area; the swabs were processed by a commercial laboratory used by the vaccine manufacturer. Nineteen additional environmental swabs from room A were collected and processed by MDHHS on December 19. All environmental swabs were negative for Salmonella. Six drinking water samples from three sites in the facility were collected on November 30 and processed by MDHHS; all were tested for Escherichia coli as a marker for bacterial contamination. All the samples were negative for E. coli. Testing of water samples for E. coli and fecal coliform also was conducted by the manufacturer; the results were negative.

Isolates of SE from four patients and the four vaccine stock cultures from the facility underwent pulsed field gel electrophoresis (PFGE) testing with two enzymes (XbaI and BlnI) by MDHHS and were determined to be indistinguishable. Phage typing was then performed on the SE isolates by the National Microbiology Laboratory of Canada in collaboration with CDC. Isolates from all four patients were phage type 8, matching the phage type of the spilled stock culture.

PFGE and phage typing also were performed on all seven SE isolates from ill Maine residents with no connection to the vaccine-production facility that were submitted to MDHHS during October-November 2006. The isolates were from four of Maine's 16 counties; none were from the MMWR

FIGURE. Number* of cases of diarrheal illness† among workers at a poultry vaccineproduction facility, by date of illness onset and Salmonella culture status - Maine, November 1-December 13, 2006



*N = 21; onset date for one patient was unknown.

† A case of diarrheal illness was defined as three or more loose or watery stools in a 24-hour period in an employee during November 1-December 13, 2006.

Includes three cases in which stool specimens were negative for Salmonella and 12 cases for which no culture was performed.

county where the vaccine facility was located. All seven isolates were indistinguishable from the phage type 8 isolates by PFGE testing on the first enzyme (Xbal); five of the seven isolates were tested on the second enzyme (BlnI), and all five matched the phage type 8 isolates. However, when phage typed, all seven isolates were determined to be phage type 13A.

Reported by: D Guppy, A Yartel, MPH, Maine Dept of Health and Human Svcs. A Pelletier, MD, Career Epidemiology Field Officer, CDC.

Editorial Note: Salmonella infections usually are acquired by eating contaminated food; however, some outbreaks have been associated with environmental contamination (1,2). Salmonella can survive in the environment for months (3), and the incubation period is 6-72 hours (4). Although the exact mechanism for infection of workers in this outbreak remains unknown, environmental contamination of room A likely was the source of SE infection. Workers might have become infected through hand-to-mouth activities after touching contaminated surfaces in room A. This mode of transmission is plausible because 1) the materials used in the clean-up of the spill were processed in room A before disposal, 2) the phage type of SE among four ill employees (type 8) was the same as that of the stock culture involved in the spill and different from that of the seven isolates from other SE cases (type 13A) reported in Maine during the same approximate period, 3) a strong epidemiologic association was determined between illness and working in room A, and 4) inadequate handwashing practices and lack of PPE were noted in room A. Person-to-person transmission also might have occurred because some persons continued to work at the facility while ill.

The findings in this report are subject to at least three limitations. First, staff members at the vaccine-production facility did not document details of the spill that occurred on November 9 until 20 days later, which might have introduced recall bias. Second. environmental specimens were not obtained until 3 weeks after the spill had occurred; routine cleaning and disinfecting had occurred during this interval. Finally, because of the clonal nature of SE, PFGE testing and phage typing alone might not be able to provide definitive strain discrimination; additional typing methods

might be required (5).

MDHHS recommended that the facility improve handwashing practices among employees and, especially in room A, the use of PPE, including gloves and (where splashes might occur) gowns and face shields. MDHHS further recommended creation of procedures for handling spills and routinely disinfecting work areas and advised ill employees not to work until their symptoms resolved. Results of the investigation were shared with USDA, the Maine Department of Labor, and the Occupational Safety and Health Administration. USDA reinspected the facility in January 2007 and began a follow-up visit on August 28.

Acknowledgments

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National, State, and Local Area Vaccination Coverage Among Children Aged 19–35 Months — United States, 2006

The National Immunization Survey (NIS) provides vaccination coverage estimates among children aged 19-35 months for each of the 50 states and selected urban and county areas.* This report describes the findings of the 2006 NIS, which indicated increases in national coverage with pneumococcal conjugate vaccine (PCV) and varicella vaccine (VAR) and a stable coverage level for the 4:3:1:3:3:1 vaccine series (i.e., >4 doses of diphtheria, tetanus toxoid, and any acellular pertussis vaccine [DTaP][†]; ≥3 doses of poliovirus vaccine; ≥1 dose of measles, mumps, and rubella vaccine [MMR]; ≥3 doses of Haemophilus influenzae type b [Hib] vaccine; ≥3 doses of hepatitis B vaccine [HepB]; and ≥1 dose of VAR). However, national coverage estimates remained below the Healthy People 2010 target of 90% coverage for PCV, DTaP, and VAR and below the 80% target for the 4:3:1:3:3:1 vaccine series (1). No significant racial/ethnic disparities in 4:3:1:3:3:1 series coverage were observed after controlling for family income. State and local immunization programs should continue to identify and target children who are not fully vaccinated, especially because of low socioeconomic status and other barriers.

To estimate coverage for all age-eligible children, NIS uses a quarterly, random-digit—dialed sample of telephone numbers for each survey area. NIS methodology, including the weighting of respondents to represent the population of children aged 19–35 months, has been described previously (2). During 2006, the household response rate (3) was 64.5%; a total of 21,044 children with provider-reported vaccination records were included in this report, representing 70.4% of all children with completed household interviews. Statistical analyses were conducted using

t tests and logistic regression modeling. All tests with p<0.05 were regarded as statistically significant. An income-to-poverty ratio variable was added to logistic regression models to control for racial/ethnic differences in family income, which was calculated using total household income, family size, and household composition and adjusted for annual cost of living using federal poverty guidelines (4).

Estimated national 4:3:1:3:3:1 vaccine series coverage did not change significantly from 2005 (76.1%) to 2006 (77.0%). In 2006, significant increases from 2005 levels were observed for PCV, VAR, and poliovirus vaccine (Table 1). The largest increases were observed for PCV; coverage increased from 82.8% to 87.0% for ≥3 doses of PCV and from 53.7% to 68.4% for ≥4 doses.

As in previous years, substantial differences were observed in vaccination coverage among states and local areas (5) for the 4:3:1:3:3:1 vaccine series and individual vaccines. Estimated coverage with the 4:3:1:3:3:1 vaccine series ranged from 83.6% in Massachusetts to 59.5% in Nevada (Table 2). Among local areas, 4:3:1:3:3:1 series coverage ranged from 81.4% in Boston, Massachusetts, to 65.2% in Detroit, Michigan. For vaccines with national coverage estimates below the 90% Healthy People 2010 target (PCV, DTaP, and VAR), PCV (≥3 doses) coverage ranged from 96.6% in Rhode Island to 69.9% in South Dakota, DTaP (≥4 doses) coverage ranged from 92.6% in Massachusetts to 73.9% in Nevada, and VAR coverage ranged from 96.4% in Rhode Island to 75.7% in Wyoming (Table 2). MMR coverage by state ranged from 97.5% in North Carolina to 84.9% in Nevada (Table 2).

In 2006, vaccination coverage for the 4:3:1:3:3:1 vaccine series was 77.9% for white children, 77.4% for Hispanic children, 75.9% for Asian children, 74.4% for American Indian/Alaska Native children, and 73.9% for black children (Table 3). Series coverage was significantly lower overall for black children compared with white children. Among black children, coverage ranged from 71.9% (95% confidence interval $[CI] = \pm 4.8$) among those living below the poverty level to 76.7% (CI = ± 3.1) among those living at or above the poverty level; among white children, coverage ranged from 69.5% (CI = ± 4.4) among those living below the poverty level to 78.9% (CI = ± 1.3) among

The 30 local areas separately sampled for the 2006 NIS included six areas that receive federal immunization grant funds and are included in the NIS sample every year (District of Columbia; Chicago, Illinois; New York, New York; Philadelphia County, Pennsylvania; Bexar County, Texas; and Houston, Texas); 18 areas that were included each year during 1994–2004 (Maricopa County, Arizona; Los Angeles County, California; San Diego County, California; Santa Clara County, California; Duval County, Florida; Miami-Dade County, Florida; Fulton and DeKalb counties, Georgia; Marion County, Indiana; Baltimore, Maryland; Boston, Massachusetts; Detroit, Michigan; Newark, New Jersey; Cuyahoga County, Ohio; Shelby County, Tennessee; Dallas County, Texas; El Paso County, Texas; King County, Washington; and Milwaukee County, Wisconsin); and six areas sampled for the first time (northern California counties; Fresno County, California; eastern Kansas counties; southern New Mexico counties; Allegheny County, Pennsylvania; and eastern Washington counties)

Also can include diphtheria and tetanus toxoid vaccine or diphtheria, tetanus toxoid, and pertussis vaccine.

[§]The income-to-poverty ratio variable had six levels: severe poverty (household income <50% of the poverty level), intermediate poverty (50% to <100% of the poverty level), near poverty (100% of the pverty level to 25% above the poverty level), low-middle income (25% to <300% above the poverty level), middle income (300% to 600% above the poverty level), and upper income (>600% above the poverty level).

For this report, persons identified as white, black, Asian, or American Indian/ Alaska Native are all non-Hispanic. Persons identified as Hispanic might be of any race.

TABLE 1. Estimated vaccination coverage levels among children aged 19–35 months, by selected vaccines and doses — National Immunization Survey, United States, 2002–2006

	2	2002*		2003 [†]	2	2004§	2	005¶	:	2006**
Vaccine/Doses	%	(95% CI ^{††})	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
DTaP§§										
≥3 doses	94.9	(±0.6)	96.0	(±0.5)	95.9	(±0.5)	96.1	(±0.5)	95.8	(±0.5)
≥4 doses	81.6	(±0.9)	84.8	(±0.8)	85.5	(±0.8)	85.7	(±0.9)	85.2	(±0.9)
Poliovirus	90.2	(±0.7)	91.6	(±0.7)	91.6	(±0.7)	91.7	(±0.7)	92.9	(±0.6)
MMR ^{¶¶} ≥1 dose	91.6	(±0.7)	93.0	(±0.6)	93.0	(±0.6)	91.5	(±0.7)	92.4	(±0.6)
Hib*** ≥3 doses	93.1	(±0.6)	93.9	(±0.6)	93.5	(±0.6)	93.9	(±0.6)	93.4	(±0.6)
Hepatitis B ≥3 doses	89.9	(±0.7)	92.4	(±0.6)	92.4	(±0.6)	92.9	(±0.6)	93.4	(±0.6)
Varicella ≥1 dose ^{†††}	80.6	(±0.9)	84.8	(±0.8)	87.5	(±0.7)	87.9	(±0.8)	89.3	(±0.7)
PCV§§§										
>3 doses	40.8	(±1.1)	68.1	(±1.0)	73.2	(±1.0)	82.8	(±1.0)	87.0	(±0.8)
≥4 doses	-	_	35.8	(±1.0)	43.4	(±1.1)	53.7	(±1.3)	68.4	(±1.1)
Combined series										
4:3:1979	78.5	(±1.0)	82.2	(±0.9)	83.5	(±0.9)	83.1	(±1.0)	83.2	(± 0.9)
4:3:1:3****	77.5	(±1.0)	81.3	(±0.9)	82.5	(±0.9)	82.4	(±1.0)	82.3	(±1.0)
4:3:1:3:3††††	74.8	(±1.0)	79.4	(±0.9)	80.9	(±0.9)	80.8	(±1.0)	80.6	(±1.0)
4:3:1:3:3:19999	65.5	(±1.1)	72.5	(±1.0)	76.0	(±1.0)	76.1	(±1.1)	77.0	

- * Born during January 1999-July 2001.
- † Born during January 2000-July 2002.
- § Born during January 2001-July 2003.
- Born during February 2002–July 2004
- ** Born during January 2003–June 2005.
- †† Confidence interval.
- §§ Diphtheria, tetanus toxoid, and any acellular pertussis vaccine; also can include diphtheria and tetanus toxoid vaccine or diphtheria, tetanus toxoid, and pertussis vaccine.
- 11 Measles, mumps, and rubella vaccine.
- *** Haemophilus influenzae type b (Hib) vaccine.
- 111 ≥1 dose of varicella vaccine at or after child's first birthday.
- §§§ Pneumococcal conjugate vaccine
- 1111 ≥4 doses of DTaP, ≥3 doses of poliovirus vaccine, and ≥1 dose of MMR.
- **** 4:3:1 plus ≥3 doses of Hib vaccine.
- 1111 4:3:1:3 plus ≥3 doses of hepatitis B vaccine.
- §§§§ 4:3:1:3:3 plus ≥1 dose of varicella vaccine.

children living at or above the poverty level. A logistic regression model that controlled for differences in income across racial/ethnic groups revealed no significant difference in coverage between black and white children.

Estimated coverage levels in 2006 for poliovirus vaccine, MMR, Hib vaccine, and HepB were above 90% for all racial/ethnic groups except for American Indian/Alaska Native children for MMR (89.1%) and Asian children for Hib vaccine (89.4%). Levels were below 90% for all racial/ ethnic groups for DTaP (≥4 doses), VAR, and PCV, except for Asian children for VAR (92.9%) (Table 3). For DTaP (>4 doses), coverage was lower overall among black children compared with white children and lower among all children living below the poverty level compared with all children living at or above the poverty level (p<0.05) (Table 3). For DTaP, the coverage disparity between black and white children was not significant after controlling for family income using the income-to-poverty ratio variable. For PCV (≥4 doses), no disparity was observed between black (56.7%; CI = \pm 5.6) and white (60.2%; CI = \pm 4.6) children who lived below the poverty level. A significant disparity in PCV (\geq 4 doses) coverage was observed between black (65.6%; CI = \pm 4.6) and white (72.3%; CI = \pm 1.4) children who lived at or above the poverty level. However, this disparity was not significant after analyses controlled for racial/ethnic differences in family income at or above the poverty level.

Reported by: KG Wooten, MA, N Darling, MPH, JA Singleton MS, A Shefer, MD, Immunization Svcs Div, National Center for Immunization and Respiratory Diseases, CDC.

Editorial Note: Vaccination coverage in 2006 remained at or near record levels for routinely recommended childhood vaccines, but increases in DTaP, PCV, and VAR coverage are needed to reach the 90% Healthy People 2010 target for individual vaccines; these increases would contribute substantially to improved coverage with the 4:3:1:3:3:1 series, particularly among disadvantaged populations. Although coverage with the fourth dose of PCV continued to increase in 2006, a significant disparity was observed among children who lived below the poverty level compared with children who lived at or above the poverty level. Receipt of the fourth dose of PCV might have been deferred for some of

TABLE 2. Estimated vaccination coverage levels for the 4:3:1:3:3:1* series and selected individual vaccines among children aged 19–35 months, by state and selected local areas — National Immunization Survey, United States, 2006§

	>4	DTaP [¶]	>1	MMR**	>1 Va	aricella††	>3	PCV55	4:3:	1:3:3:1
State/Area	96	(95% CITT)	%	(95% CI)	96	(95% CI)	%	(95% CI)	%	(95% CI)
Inited States	85.2	(±0.9)	92.4	(±0.6)	89.3	(±0.7)	87.0	(±0.8)	77.0	(±1.0)
Nabama	85.9	(±6.2)	94.0	(±4.0)	94.5	(±3.4)	92.3	(±3.7)	79.1	(±6.9)
Alaska	77.3	(±6.4)	85.8	(±5.1)	80.4	(±5.8)	83.2	(±5.9)	67.3	(±7.0)
Arizona	80.3	(±4.2)	87.8	(±3.5)	83.1	(±4.0)	87.6	(±3.4)	70.6	(±4.7)
Maricopa County	79.6	(±5.6)	87.3	(±4.7)	82.2	(±5.3)	86.9	(±4.5)	68.2	(±6.2)
	81.5	(±6.1)	88.5	(±4.7) (±5.0)	84.8	(±5.7)	88.9	(±4.8)	75.2	(±6.8)
Rest of state			85.9		87.7	(±6.6)	84.7			
Arkansas	78.0	(±8.7)		(±6.7)				(±6.4)	72.9	(±8.9)
California	85.1	(±3.8)	92.9	(±2.6)	91.5	(±2.9)	90.2	(±3.1)	78.6	(±4.2)
Fresno County	81.6	(±5.1)	92.5	(±3.5)	89.7	(±4.1)	90.0	(±3.9)	73.5	(±6.2)
Los Angeles County	85.0	(±5.3)	92.0	(±3.9)	89.5	(±4.5)	91.2	(±3.8)	78.5	(±5.9)
Northern California	81.0	(±5.2)	89.1	(±4.2)	84.1	(±4.9)	80.8	(±5.3)	71.3	(±6.1)
San Diego County	88.2	(±4.1)	91.4	(±4.1)	89.8	(±4.5)	90.1	(±4.5)	80.3	(±5.5)
Santa Clara County	85.9	(±5.0)	94.6	(±2.8)	92.8	(±3.4)	87.5	(±4.7)	77.7	(±6.0)
Rest of state	84.9	(±6.4)	93.6	(±4.4)	92.9	(±4.8)	90.2	(±5.3)	79.1	(± 7.1)
Colorado	84.7	(±6.8)	88.2	(±6.0)	85.6	(±6.0)	80.4	(± 7.5)	75.9	(± 7.8)
Connecticut	91.5	(±4.1)	96.5	(±2.0)	92.6	(±3.2)	93.5	(± 3.4)	82.0	(± 5.2)
Delaware	89.4	(±5.3)	96.5	(±2.6)	92.2	(±4.3)	89.5	(± 4.9)	80.3	(±6.8)
District of Columbia	85.1	(±5.0)	92.1	(±3.5)	91.1	(±3.9)	86.1	(± 4.5)	78.4	(±5.8)
Florida	85.1	(±4.0)	91.8	(±3.1)	91.9	(±3.1)	82.2	(±4.8)	80.2	(± 4.2)
Duval County	83.7	(±4.9)	91.8	(±3.4)	90.4	(±3.9)	82.8	(±4.8)	76.3	(± 5.5)
Miami-Dade County	87.0	(±5.3)	93.9	(±3.2)	94.3	(±3.3)	82.3	(±5.1)	79.9	(±6.1)
Rest of state	84.8	(±4.9)	91.3	(±3.9)	91.6	(±3.9)	82.2	(±6.0)	80.6	(±5.2)
Georgia	88.4		91.0	(±3.7)	92.7	(±3.1)	81.6	(±4.5)	81.4	(±4.6)
Fulton and DeKalb counties	86.3		93.6	(±4.2)	86.3	(±6.3)	84.6	(±6.5)	74.9	(±7.6)
Rest of state	88.9		90.4	(±4.4)	94.1	(±3.4)	81.0	(±5.3)	82.8	(±5.4)
Hawaii	84.5		89.9	(±4.7)	89.6	(±4.5)	91.6	(±3.7)	78.8	(±6.2)
daho	82.5		88.2	(±5.3)	79.0	(±6.4)	91.6	(±4.0)	68.8	(±0.2)
llinois	84.0		89.2	(±5.0)	85.4	(±4.7)	85.6	(±5.1)	74.1	
City of Chicago	85.1		88.5	(±4.7)	87.1	(±4.7) (±4.8)	88.8			(±6.1)
Rest of state	83.7							(±4.7)	77.3	(±5.8)
			89.5	(±6.6)	84.8	(±6.1)	84.5	(±6.7)	73.0	(±7.9)
Indiana County	84.5		89.5	(±4.3)	88.0	(±4.4)	87.3	(±4.8)	75.9	(±5.8)
Marion County	85.4		90.2	(±4.2)	88.0	(±4.7)	90.6	(±4.0)	76.7	(±6.0)
Rest of state	84.3		89.4	(±5.1)	87.9	(±5.2)	86.6	(±5.7)	75.7	(±6.9)
lowa	88.4		90.4	(±4.7)	87.0	(±5.3)	87.6	(±5.0)	79.0	(±6.2)
Kansas	87.1		92.8	(±3.2)	82.7	(±4.6)	87.1	(±4.0)	70.1	(±5.5)
Eastern Kansas	87.0		90.9	(±4.0)	83.8	(±5.2)	92.9	(±3.6)	73.7	(± 6.2)
Rest of state	87.2		93.4	(±4.1)	82.3	(±6.0)	85.1	(±5.3)	68.8	(± 7.2)
Kentucky	87.1		91.8	(±4.0)	90.2	(±4.2)	85.8	(± 4.9)	79.0	(± 6.0)
Louisiana	76.7	(±6.7)	88.9	(±4.3)	87.5	(± 4.7)	86.2	(±5.6)	69.6	(±7.1)
Maine	88.1		92.2	(±4.5)	89.3	(±5.7)	87.2	(±6.1)	75.7	(± 7.0)
Maryland	86.9	(±4.4)	96.1	(±3.0)	93.5	(± 3.4)	90.1	(±3.6)	78.3	(±5.5)
City of Baltimore	81.3	(±6.7)	93.3	(±3.6)	89.6	(±4.8)	86.4	(±5.4)	72.2	(± 7.4)
Rest of state	87.7	(±4.9)	96.5	(±3.4)	94.1	(±3.9)	90.7	(±4.1)	79.1	(±6.3)
Massachusetts	92.6	(±3.5)	96.6	(±2.4)	93.4	(±3.3)	95.4	(±2.7)	83.6	(±5.0)
City of Boston	88.1	(±4.4)	95.4	(±2.7)	90.4	(±3.8)	93.4	(±3.2)	81.4	(±5.1)
Rest of state	93.1	(±3.8)	96.7		93.8	(±3.7)	95.6	(±3.0)	83.8	(±5.5)
Michigan	84.9	(±4.4)	92.2		89.9	(±3.8)	85.2	(±4.4)	77.9	(±5.0)
City of Detroit	74.0		83.8		84.1	(±5.4)	77.0	(±6.4)	65.2	(±7.1)
Rest of state	86.2		93.2		90.6	,	86.1			(±5.6)
Minnesota	87.4	7	92.3		82.7	(±5.7)	92.5	(±3.6)		(±6.3)
Mississippi	79.8		88.4		87.0	(±5.7) (±5.4)	80.6	(±6.2)	77.6	
Missouri	87.1		95.8		90.3				73.3	(±7.1)
Montana	76.2						84.0	(±5.4)	80.7	(±5.8)
Nebraska			87.2		76.2		82.5	(±5.8)	65.6	(±6.6)
	84.3		91.6		86.4		85.8	(±5.4)	74.9	(±6.4)
Nevada	73.9		84.9		80.1	(±6.3)	73.7	(±6.7)	59.5	(± 7.4)
New Hampshire	87.7		93.0		86.3		89.1	(±4.8)	76.3	(±6.1)
New Jersey	85.5		91.3		92.5		85.8	(±4.9)	76.1	(±6.3)
City of Newark	78.0		89.7		86.8		79.8	(±5.8)	68.1	(± 7.0)
Rest of state	85.8	(±5.4)	91.4	(±3.9)	92.7	(±3.5)	86.1	(±5.1)	76.5	(±6.5)

TABLE 2. (Continued) Estimated vaccination coverage levels for the 4:3:1:3:3:1* series and selected† individual vaccines among children aged 19–35 months, by state and selected local areas — National Immunization Survey, United States, 2006§

	≥4	DTaP¶	≥1	MMR**	≥1 V	aricella ^{††}	≥3	PCV ^{§§}	4:3	:1:3:3:1
State/Area	% (95% CITT)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
New Mexico	79.5	(±5.0)	89.2	(±3.9)	82.8	(±4.8)	83.9	(±4.2)	71.6	(±5.4)
Southern New Mexico	79.6	(±5.6)	87.3	(±4.5)	84.4	(±5.0)	82.0	(±5.6)	71.3	(±6.3)
Rest of state	79.5	(±6.8)	90.0	(±5.2)	82.2	(±6.6)	84.8	(±5.5)	71.8	(±7.3)
New York	87.7	(±3.6)	95.5	(±2.8)	90.6	(±2.9)	88.0	(±3.4)	78.7	(±4.3)
City of New York	81.3	(±6.0)	95.8	(±2.5)	89.4	(±4.0)	83.4	(±5.7)	72.0	(±6.4)
Rest of state	93.5	(±3.8)	95.3	(±4.8)	91.6	(±4.3)	92.3	(±3.8)	84.9	(±5.5)
North Carolina	89.1	(± 4.7)	97.5	(±2.1)	95.6	(±3.3)	92.7	(±4.6)	81.5	(±6.4)
North Dakota	86.9	(±4.5)	91.7	(±3.8)	88.9	(±4.1)	90.9	(±3.8)	80.1	(±5.2)
Ohio	84.7	(±4.7)	93.6	(±3.0)	87.0	(±4.1)	87.5	(±4.1)	75.0	(±5.5)
Cuyahoga County	89.9	(±4.4)	94.3	(±3.7)	86.8	(±5.3)	89.3	(±4.8)	77.3	(±6.5)
Rest of state	84.0	(±5.3)	93.5	(±3.3)	87.1	(±4.6)	87.3	(±4.5)	74.7	(±6.1)
Oklahoma	86.3	(±4.7)	94.0	(±3.2)	92.3	(±3.7)	78.7	(±5.9)	77.6	(±5.6)
Oregon	82.6	(±5.6)	88.7	(±4.5)	81.7	(±5.8)	87.0	(±4.7)	73.2	(±6.6)
Pennsylvania	87.5	(±4.3)	94.7	(±2.3)	90.8	(±3.0)	91.2	(±3.3)	80.8	(±4.7)
Allegheny County	85.7	(±5.5)	89.8	(±5.6)	89.9	(±5.1)	93.3	(±3.7)	74.0	(±7.2)
Philadelphia County	83.8	(±6.5)	93.6	(±4.7)	92.7	(±4.9)	89.0	(±5.3)	78.4	(±7.0)
Rest of state	88.5	(±5.5)	95.5	(±2.8)	90.5	(±3.8)	91.4	(±4.2)	82.0	(±6.0)
Rhode Island	86.6	(±4.6)	96.2	(±2.4)	96.4	(±2.1)	96.6	(±2.1)	80.6	(±5.1)
South Carolina	85.3	(±5.2)	93.9	(±3.7)	90.5	(±4.8)	88.0	(±5.5)	79.6	(±5.8)
South Dakota	85.5	(±5.3)	94.4	(±3.0)	83.4	(±5.6)	69.9	(±6.3)	74.4	(±6.5)
Tennessee	86.1	(±5.0)	93.3	(±3.2)	87.6	(±4.5)	90.2	(±4.0)	76.8	(±5.9)
Shelby County	82.5	(±6.0)	88.3	(±5.5)	87.4	(±4.8)	90.5	(±4.5)	74.2	
Rest of state	86.9	(±6.0)	94.4	(±3.7)	87.6	(±5.4)	90.1	(±4.8)	77.4	(±7.1)
Texas	81.4	(±3.3)	92.0	(±2.0)	90.8	(±2.2)	85.0	(±3.2)	74.7	(±3.7)
Bexar County	80.2	(±6.3)	89.2	(±4.7)	90.5	(±4.6)	90.1	(±4.4)	74.7	(±6.8)
City of Houston	77.3	(±5.7)	87.5	(±4.5)	84.9	(±5.1)	82.4	(±5.2)	69.9	
Dallas County	80.4	(±6.4)	92.7	(±4.4)	89.8	(±5.4)	85.0	(±5.8)	73.9	4
El Paso County	78.8	(±5.5)	88.9	(±4.5)	88.2	(±4.6)	83.0	(±5.3)	68.8	
Rest of state	82.7	(±4.7)	93.2	(±2.8)	92.2	(±3.0)	85.1	(±4.6)	76.1	(±5.3)
Utah	84.4	(±5.7)	92.4	(±4.1)	89.2	(±4.7)	79.7	(±6.0)	78.0	(±6.3)
Vermont	88.6	(±4.9)	95.1	(±2.5)	80.9	(±5.4)	85.2	(±8.2)	75.2	(±5.9)
Virginia	86.2	(±4.8)	93.6	(±3.5)	89.1	(±4.2)	86.4	(±5.4)	77.4	(±5.7)
Washington	86.3	(±3.9)	88.3	(±3.6)	79.1	(± 4.7)	85.7	(±4.2)	71.4	(±5.1)
Eastern Washington	90.4	(±3.9)	94.5	(±3.0)	81.7	(±5.7)	87.9	(±4.7)	72.2	(±6.5)
King County	84.2	(± 7.7)	87.0	(±6.9)	79.7	(±8.4)	86.6	(± 7.4)	69.2	(±9.3)
Rest of state	86.5	(±5.4)	87.6	(±5.0)	78.3	. ,	84.8	(±6.1)	72.3	
West Virginia	83.2	(±5.9)	91.2	(±4.3)	80.7	(±6.4)	78.3	(±6.6)	68.4	
Wisconsin	92.1	(±2.9)	94.0	(±2.7)	88.4		93.0		80.5	
Milwaukee County	89.5	(±4.2)	94.1	(±3.0)	92.4	, ,	89.1	(±4.7)	78.1	(±6.8)
Rest of state	92.8	(±3.5)	94.0	(±3.3)	87.4	(±5.0)	94.0	,	81.1	(±5.8)
Wyoming	77.4	(±5.8)	87.7	(±4.7)	75.7		78.7		63.5	,

* Includes ≥4 doses of diphtheria, tetanus toxoid, and any acellular pertussis vaccine (DTaP) (also can include diphtheria and tetanus toxoid vaccine or diphtheria, tetanus toxoid, and pertussis vaccine); ≥3 doses of poliovirus vaccine; ≥1 dose of measles, mumps, and rubella vaccine; ≥3 doses of Haemophilus influenzae type b vaccine; ≥3 doses of hepatitis B vaccine; and ≥1 dose of varicella vaccine.

† Individual vaccines were selected because coverage was below the *Healthy People 2010* target of 90%, except measles, mumps, and rubella vaccine, which was included as an example of a vaccine with higher coverage for comparison. Coverage estimates for other vaccines and vaccine series are available at http://www.cdc.gov/vaccines/stats-surv/imz-coverage.htm#chart.

§ Children in the 2006 National Immunization Survey were born during January 2003–June 2005.

¶ ≥4 doses of DTaP.

** >1 dose of measles, mumps, and rubella vaccine.

↑↑ ≥1 dose of varicella vaccine at or after child's first birthday.

§§ >3 doses of pneumococcal conjugate vaccine.

11 Confidence interval.

the older children in the 2006 NIS cohort (i.e., those born during January 2003–June 2005) because of the vaccine shortage that ended in September 2004 (6).

Results from the 2005 NIS indicated no disparity in 4:3:1:3:3:1 series coverage between black and white

children. The results of the 2006 NIS indicate that disparities in coverage by poverty level, coupled with different income distributions among white and black populations, account for the observed coverage disparities between black and white children. A previous report using

TABLE 3. Estimated vaccination coverage levels among children aged 19–35 months, by selected vaccines and doses, race/ethnicity * and poverty level* — National Immunization Survey. United States. 2006§

		White, n-Hispanic		lack, Hispanic		lispanic		ican Indian/ ska Native		Asian		Below erty level		or above erty level
Vaccine/Doses	96	(95% CI*)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	96	(95% CI
DTaP**														
>3 doses	96.4	(± 0.6)	93.6	(± 1.7)	95.9	(± 0.9)	95.1	(± 3.6)	96.9	(± 1.7)	94.2	(± 1.2)	96.4	(± 0.5)
>4 doses	86.6	(±1.1)	81.4	(+2.7)	84.7	(± 1.8)	81.9	(± 8.9)	85.8	(± 5.5)	81.0	(± 2.0)	86.8	(± 1.0)
Poliovirus	93.3	(+0.7)	90.7	(± 1.9)	93.4	(± 1.1)	91.3	(± 5.0)	92.4	(± 5.0)	92.1	(± 1.3)	93.1	(± 0.7)
MMR ¹¹ >1 dose	92.8	(+0.8)	91.0	(± 1.9)	92.1	(± 1.4)	89.1	(± 5.5)	94.6	(+2.8)	91.1	(± 1.3)	93.1	(± 0.7)
Hib [™] ≥3 doses	94.0	(+0.8)	91.1	(± 1.9)	94.0	(± 1.1)	93.9	(+3.8)	89.4	(± 3.5)	91.3	(± 1.4)	94.1	(+0.7)
Hepatitis B >3 doses	93.9	(+0.7)	91.5	(± 1.9)	93.6	(± 1.1)	95.3	(+3.2)	91.5	(± 3.4)	92.9	(± 1.2)	93.5	(± 0.7)
Varicella ≥1 dose ^{ff}	88.8	(±0.9)	89.2	(± 2.0)	89.8	(± 1.6)	84.9	(± 6.2)	92.9	(± 2.8)	88.6	(± 1.4)	90.0	(± 0.7)
PCV***														
>3 doses	87.2	(+1.0)	83.3	(+2.5)	89.1	(+1.7)	86.8	(+6.3)	81.1	(+5.5)	84.5	(+2.0)	88.0	(+0.9)
>4 doses	70.8		61.1	(± 3.4)	67.5	(± 2.4)	62.0	(± 9.9)	64.8	(± 6.5)	61.8	(± 2.5)	71.1	(± 1.2)
Combined series														
4:3:1***	84.7	(±1.1)	79.1	(+2.7)	82.3	(+2.0)	80.0	(+9.0)	84.9	(± 5.5)	79.4	(+2.0)	84.8	(± 1.1)
4:3:1:3111	83.9	(+1.1)	78.6	(+2.8)	81.7	(+2.0)	79.5	(+9.0)	80.4	(± 5.7)	78.2	(+2.1)	84.0	(± 1.1)
4:3:1:3:3***	82.2		76.8	(+2.8)	80.1	(+2.1)	78.6	(± 9.0)	78.4	(+5.8)	76.6	(+2.1)	82.2	(± 1.1)
4:3:1:3:3:1****	77.9		73.9		77.4	(+2.1)	74.4	(+9.2)	75.9	(+5.9)	73.8	(+2.2)	78.4	(± 1.2)

* Native Hawaiian or other Pacific Islanders and persons of multiple races were not included because of small sample sizes

† Children are classified as below poverty level if their total family income is less than the federal poverty threshold specified for the applicable family size and number of children aged <18 years. All others are classified as at or above poverty. Poverty thresholds reflect yearly changes in the Consumer Price Index. Information about poverty thresholds and guidelines is available at http://www.census.gov/hhes/www/poverty.html.

Children in the 2006 National Immunization Survey were born during January 2003–June 2005.

1 Confidence interval.

** Diphtheria, tetanus toxoid, and any acellular pertussis vaccine; also can include diphtheria and tetanus toxoid vaccine or diphtheria, tetanus toxoid, and pertussis vaccine.

^{††} Measles, mumps, and rubella vaccine.

§§ Haemophilus influenzae type b (Hib) vaccine

11 >1 dose of varicella vaccine at or after child's first birthday.

*** Pneumococcal conjugate vaccine

ttt ≥4 doses of DTaP, ≥3 doses of poliovirus vaccine, and ≥1 dose of MMR.

§§§ 4:3:1 plus ≥3 doses of Hib vaccine.

1111 4:3:1:3 plus ≥3 doses of hepatitis B vaccine.

**** 4:3:1:3:3 plus ≥1 dose of varicella vaccine.

1999-2003 NIS data determined that socioeconomic factors had a similar effect on associations between vaccination coverage and race/ethnicity (7). Nearly 41% of all black children aged <5 years live below the poverty level, compared with 16% of white children (8). Children who live below the poverty level are less likely to be vaccinated than children who live at or above the poverty level. The 1999-2003 report led to the development of a questionnaire module of socioeconomic variables that will be added to the NIS in 2008 and will be used to identify barriers to vaccination among racial/ethnic groups and socioeconomically disadvantaged populations. Increasing overall vaccination coverage, eliminating coverage disparities associated with socioeconomic differences in families with children, and eliminating disparities among states and local areas remain high priorities for national, state, and local immunization programs. Vaccination funding through the federal Vaccines for Children program (9) has contributed to record coverage levels among children who are uninsured or underinsured, but additional measures are needed to deliver vaccines to children who live below the poverty level.

The findings in this report are subject to at least three limitations. First, because NIS is a telephone survey, results are weighted to be representative of all children aged

19–35 months. Although statistical adjustments were made to account for nonresponse and households without landline telephones, some bias might remain. Second, underestimates of vaccination coverage might have resulted from the exclusive use of provider-reported vaccination histories because completeness of these records is unknown. Finally, although national estimates of vaccination coverage are precise, estimates for state and local areas should be interpreted with caution because their sample sizes are smaller and their confidence intervals generally are wider than those for national estimates.

Although vaccination-coverage estimates were above the Healthy People 2010 target among all racial/ethnic groups for most of the routinely recommended vaccines, continued collaboration among national, state, local, private, and public partners is needed to reach the 90% target for all vaccines by 2010. Vaccination-coverage data gathered through NIS are used to identify children who are at risk for vaccine-preventable diseases, evaluate the effectiveness of programs designed to increase coverage levels, assess differential impact of vaccine shortages, and track uptake of new vaccines. Expansion of NIS (e.g., adding local areas for coverage assessment; adding survey questions about health insurance coverage, day care participation, and parental

beliefs and attitudes regarding vaccines; and including more expansive measures of socioeconomic status) will provide greater understanding of factors associated with low vaccination coverage, particularly those associated with socioeconomically disadvantaged populations.

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National Vaccination Coverage Among Adolescents Aged 13–17 Years — United States, 2006

Before 2005, vaccines were administered during adolescence to "catch up"* children with vaccinations not received at a younger age, with the exception of the tetanus and diphtheria (Td) booster (1). However, since 2005, three new vaccines specifically for older children have been licensed and recommended in the United States: meningococcal conjugate vaccine (MCV4) for those aged 11–12 years and 15 years†; tetanus toxoid, reduced diphtheria

toxoid, and acellular pertussis (Tdap) vaccine for those aged 11-12 years (or at ages 13-18 years if not received at ages 11-12 years); and human papillomavirus (HPV) vaccine for girls aged 11-12 years (or at ages 13-18 years if not received at 11-12 years). Since 1996, the Advisory Committee on Immunization Practices (ACIP) and professional organizations, including the American Academy of Pediatrics (AAP), the American Academy of Family Physicians (AAFP), and the American Medical Association (AMA), have recommended a health-care visit at ages 11-12 years for receipt of recommended vaccinations (2). In addition, a Healthy People 2010 objective (14-27) is to achieve ≥90% vaccination coverage among adolescents aged 13-15 years (3) for certain vaccines. In 2006, for the first time, the National Immunization Survey (NIS) collected providerreported vaccination information for adolescents aged 13-17 years (NIS-Teen). This report describes the results of that survey, which indicated that the Healthy People 2010 target has not been met for any of the vaccines analyzed. HPV vaccination coverage is not included in this report because NIS-Teen was conducted before HPV vaccination recommendations were published in March 2007. Routine healthcare visits for adolescents should be encouraged, with emphasis on a visit at ages 11-12 years, and providers should continue to assess the need for vaccinations at every opportunity. NIS-Teen will be conducted annually to monitor coverage with recommended vaccines during ages 11-17 years and to identify groups with lower coverage.

NIS, which traditionally monitors vaccination coverage for children aged 19–35 months, has been conducted by CDC since 1994. NIS-Teen is a random-digit-dialed telephone survey that collects vaccination information using methods similar to those of NIS, including use of vaccination records from health-care providers to determine vaccination coverage estimates (4,5). During October 2006–February 2007, a total of 5,468 household interviews were conducted with parents or guardians of adolescents aged 13–17 years. The household response rate was 56.2%; a total of 2,882 adolescents with provider-reported vaccination records were included in this report, representing 52.7% of adolescents with completed household interviews.

Coverage with ≥1 dose of either Td or Tdap vaccine after age 10 years was 60.1% (95% confidence interval [CI] =

^{*}Catch-up can refer either to vaccinations that are administered because they were recommended but missed or vaccinations administered to persons who were born before a particular vaccine became available or before a vaccine was routinely recommended for infants (e.g., hepatitis B, varicella, or measles, mumps, and rubella).

[†] In June 2007, after the National Immunization Survey—Teen interviews included in this report were completed, MCV4 recommendations were simplified to include all persons aged 11–18 years.

[§] For ≥3 doses hepatitis B vaccine; ≥2 doses measles, mumps, and rubella vaccine; ≥1 dose Td booster; and ≥1 dose varicella vaccine among those without a reported history of disease. In addition, the target for any new ACIP-recommended vaccine is ≥90% coverage within 5 years of the recommendation.

Eligible adolescents included those born during October 7, 1988–February 7, 1994.

TABLE. Estimated vaccination coverage among adolescents aged 13–17 years,* by selected vaccines and age — National Immunization Survey – Teen, United States, 2006

					A	ge (yrs)						
		13 (n = 570)		14 (n = 566)		15 (n = 632)		16 (n = 574)		17 (n = 540)	(1	13-17 N = 2,882)
Vaccine	%	(95% CI) [↑]	%	(95% CI)								
MMR,§ >2 doses	87.0	(82.8-90.3)	90.1	(86.0-93.1)	88.3	(85.0-90.9)	83.0	(77.9-87.1)	85.8	(81.9-88.9)	86.9	(85.2-88.5)
Hepatitis B, ≥3 doses	88.6	(84.5-91.6)	84.6	(80.1-88.2)	80.0	(75.9 - 83.6)	75.6	(70.4 - 80.2)	77.3	(72.5-81.4)	81.3	(79.4-83.1)
Varicella												
Adolescents with history of varicella disease [¶] ≥1 dose among adolescents	60.5	(55.3-65.4)	60.6	(55.3–65.7)	72.9	(68.4–76.9)	74.1	(68.9–78.6)	82.1	(77.9–85.7)	69.9	(67.7–72.0)
without history of varicella disease	73.3	(66.1-79.5)	72.9	(64.6-79.9)	64.9	(55.7-73.1)	54.7	(43.5-65.5)**	46.3	(35.0-58.1)**	65.5	(61.4–69.4)
Adolescents with history of varicella disease or who had received ≥1 dose varicella vaccination	89.5	(86.1–92.1)	89.3	(85.5–92.2)	90.5	(87.1–93.0)	88.3	(83.7–91.7)	90.4	(87.1–92.9)	89.6	(88.1-90.9)
Td or Tdap ^{††} (since age 10 yrs)												
≥1 dose Td or Tdap	48.3	(43.1-53.7)	57.1	(51.8-62.2)	64.2	(59.4-68.7)	62.7	(57.3-67.9)	68.6	(63.4 - 73.4)	60.1	(57.8-62.4)
≥1 dose Tdap	12.7	(9.6-16.5)	15.4	(11.8-19.8)	12.1	(9.3-15.5)	8.0	(5.3-11.9)	5.1	(3.3-7.7)	10.8	(9.4-12.3)
≥1 dose Td	35.7	(30.7 - 40.9)	41.7	(36.7 - 46.9)	52.1	(47.2 - 57.0)	54.8	(49.4-60.0)	63.5	(58.2 - 68.5)	49.4	(47.0-51.7)
MCV4,§§ 1 dose	11.3	(8.6-14.8)	12.5	(9.4-16.5)	13.9	(10.9-17.6)	13.2	(10.2-16.9)	7.1	(5.0-10.0)	11.7	(10.3-13.2)

* Age and vaccination receipt determined at time of household interview. Vaccination coverage estimates include only adolescents who had adequately complete provider-reported

vaccination records

† Confidence interval.

§ Measles, mumps, and rubella.

1 Based on health-care provider records or reports from parent or guardian.

** Estimate might not be reliable if the confidence interval (CI) half-width is >10 or the CI half-width / Estimate is >0.5.

†† Tetanus toxoid and diphtheria (Td) or tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis (Tdap). Td or Tdap booster is recommended at ages 11–12 years. Tdap

was licensed and recommended in 2005.

Meningococcal conjugate vaccine. Includes those receiving MCV4 or an unspecified type of meningococcal vaccine. At the time of the survey, MCV4 was recommended for adolescents aged 11–12 years and previously unvaccinated adolescents at high-school entry (those aged approximately 15 years). MCV4 was licensed and recommended in 2005.

57.8–62.4) (Table). Overall vaccination coverage with Td vaccine was 49.4% (CI = 47.0–51.7) and ranged from 35.7% among adolescents aged 13 years to 63.5% among those aged 17 years. In 2005, Tdap vaccine was licensed and recommended to replace a single dose of Td vaccine. Coverage with 1 dose of Tdap vaccine was 10.8% (CI = 9.4–12.3) and ranged from 5.1% among adolescents aged 17 years to 15.4% among those aged 14 years.

Coverage with ≥3 doses of hepatitis B vaccine among all adolescents aged 13–17 years was 81.3% (CI = 79.4–83.1); coverage was higher among adolescents aged 13–14 years than among those aged 15–17 years (Table). Overall coverage with measles, mumps, and rubella (MMR) vaccine also was high (86.9% [CI = 85.2–88.5]), with no substantial differences by age.

Almost three fourths of adolescents had a history of varicella disease (69.9% [CI = 67.7–72.0]) (by parental report or provider history). Among adolescents without a history of varicella disease, 65.5% (CI = 61.4–69.4) had received ≥1 dose of varicella vaccine.

MCV4 vaccination had been received by 11.7% (CI = 10.3–13.2) of adolescents aged 13–17 years; the highest coverage was among those aged 15 years (13.9% [CI =

10.9–17.6]). Adolescents aged 17 years had the lowest MCV4 coverage (7.1% [CI = 5.0–10.0]; p<0.05).

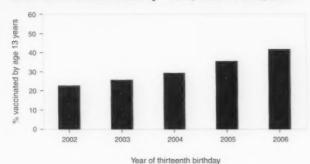
To assess progress in achieving *Healthy People 2010* objectives (which do not include adolescents aged 16–17 years), vaccination coverage was determined only for adolescents aged 13–15 years. Coverage was 84.3% (CI = 82.0–86.4) for ≥3 doses of hepatitis B vaccine, 88.5% (CI = 86.4–90.3) for ≥2 doses of MMR vaccine, and 56.7% (CI = 53.7–59.7) for ≥1 dose of Td or Tdap booster; coverage was 70.9% (CI = 66.3–75.1) for ≥1 dose of varicella vaccine among those without a reported history of disease.

To assess receipt of Td or Tdap vaccinations at ages 10–12 years, vaccination coverage was determined for ≥1 booster dose by the year in which adolescents reached age 13 years. Receipt of Td or Tdap vaccination increased from 22.7% (C1 = 18.4–27.6) of children who reached age 13 years in 2002 to 41.7% (C1 = 36.4–47.3) of children who reached age 13 years in 2006 (Figure).

Reported by: N Jain, MD, S Stokley, MPH, Immunization Sves Div, National Center for Immunization and Respiratory Diseases, CDC.

Editorial Note: This is the first report of national adolescent vaccination-coverage estimates based on provider-reported vaccination histories. The results indicate that in 2006, the *Healthy People 2010* target for adolescents aged

FIGURE. Estimated Td* or Tdap† vaccination coverage,§ by year in which adolescent reached thirteenth birthday — National Immunization Survey – Teen, United States, 2006



* Tetanus toxoid and diphtheria.

Tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis.

⁹≥1 booster dose of vaccine by age 13 years.

13–15 years had not been met for any of the vaccines. Before development of NIS-Teen, national estimates of adolescent vaccination coverage were determined primarily from data collected from the National Health Interview Survey (NHIS), which is based on parental recall rather than provider records. Based on data from the 2003 NHIS, coverage with ≥2 doses of MMR and ≥1 dose of Td vaccine among adolescents ages 13–15 years was estimated at >90% (3), higher than the coverage estimates described in this report. Although the reliability of parental recall of adolescent vaccinations has not been studied, studies evaluating parental recall of infant vaccinations have indicated that parents do not accurately recall childhood vaccinations (6,7), emphasizing the need for provider-reported data.

Coverage levels among adolescents must be considered in the context of vaccination programs that existed when the adolescents reached the recommended ages for each vaccine. For example, adolescents aged 13-14 years were born primarily during 1992-1993, or 1-2 years after ACIP recommendations for universal vaccination of infants with hepatitis B vaccine; adolescents aged 15-17 years were born before this recommendation and therefore might be expected to have lower coverage. Although many states have hepatitis B vaccination requirements for middle-school entry, results from NIS-Teen suggest that many older adolescents have not received the vaccination. Therefore, providers should continue to review the vaccination status of adolescent patients to ensure they are fully vaccinated. CDC will conduct additional analyses to better characterize the impact of vaccination programs on adolescent vaccination coverage.

During 2002-2006, an increasing percentage of children were receiving Td or Tdap by age 13 years, as recommended by ACIP; however, overall coverage (60.1%) remained low, and coverage among adolescents aged 13-15 years (56.7%) was still below the national objective of 90%. Tdap coverage alone was low (10.8%), although a low level was expected because Tdap recommendations were published only 1-2 years before this survey was conducted. The lower Tdap vaccination coverage among older adolescents (aged 16-17 years) compared with younger adolescents (aged 13-15 years) might be a result of the time interval required between Td and Tdap vaccinations; Td vaccination coverage increased with age, and a 5-year interval is recommended before administering Tdap vaccine. Alternately, the higher Tdap coverage among younger adolescents might be a reflection of health-care use patterns; younger adolescents are more likely to have preventive health-care visits, when vaccinations are typically administered, than older adolescents (8).

The findings in this report are subject to at least four limitations. First, because NIS-Teen is a telephone survey, adjustments were made for nonresponse and for households without landline telephones; however, some bias might remain. Second, NIS-Teen uses provider-reported vaccination histories and assumes that coverage among adolescents for whom adequate provider data were not available is similar to coverage among adolescents for whom adequate provider data were available, controlling for factors associated with vaccination coverage; this might have resulted in an underestimation or overestimation of vaccination coverage. Third, certain provider-reported vaccination records might not have included all vaccinations received (e.g., vaccinations administered in nontraditional settings such as emergency departments), which might have resulted in an underestimation of vaccination coverage. Finally, the response rates were low (56.2% household response rate and 52.7% response rate for provider-vaccination records from responding households).

Vaccinating adolescents presents numerous challenges. Adolescents do not frequently seek preventive health-care services, some do not have health insurance, and some visit multiple health-care providers and nontraditional providers who vary in vaccination practices (8,9). Routine health-care visits should be encouraged for all adolescents, with an emphasis on the visit at ages 11–12 years as recommended by ACIP, AAP, AAFP, and AMA (2). During this visit, vaccinations and other evidence-based preventive services should be provided. In addition, adolescents aged 13–18 years should be vaccinated with recommended vaccines

at the earliest opportunity. CDC will continue annual monitoring of adolescent vaccination coverage among different age groups. Future analyses will assess coverage by race/ethnicity and other sociodemographic factors to identify barriers to vaccination. To increase the ascertainment of provider-reported vaccinations, the 2007 NIS-Teen includes new questions for parents or guardians on vaccinations their adolescents received from providers other than traditional health-care providers. In addition, the survey will be expanded in 2008 to produce state-level estimates that will provide information on the effects of additional factors on adolescent coverage, including vaccine financing and state mandates.

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Notice to Readers

Sickle Cell Disease Awareness Month — September 2007

Sickle cell disease is a genetic blood disorder that most commonly affects persons whose ancestors come from Africa, South or Central America (especially Panama), Caribbean islands, Mediterranean countries (e.g., Turkey, Greece, and Italy), India, and Saudi Arabia (1). Approximately 70,000 persons in the United States (primarily black or Hispanic) have sickle cell disease. In addition, approximately 2 million persons have sickle cell trait and can have children with sickle cell trait or sickle cell disease (1).

September is Sickle Cell Disease Awareness Month. In recognition, CDC is sponsoring activities to increase awareness and knowledge of the disease, including three public science seminars in September. Additional information about sickle cell disease and the science seminars is available at http://www.cdc.gov/ncbddd/sicklecell.

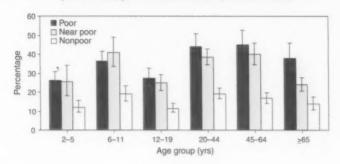
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QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Percentage of Persons with Untreated Dental Caries,* by Age Group[†] and Poverty Status[§] — National Health and Nutrition Examination Survey (NHANES), United States, 2001–2004



*As determined by NHANES dental examination; excludes persons who are edentulous.

[†] Persons aged 2–5 years: primary teeth only; 6–11 years: both primary and secondary teeth; ≥12 years: secondary teeth only.

§ Poor is defined as having an annual family income <100% of the relevant U.S. Census poverty threshold, near poor as 100% to <200% of the threshold, and nonpoor as ≥200% of the threshold. In 2004, for a family of four (two adults and two children aged <18 years), the poverty threshold was \$19,157, and poverty status levels were as follows: poor, <\$19,157; near poor, \$19,157–\$38,314; and nonpoor, >\$38,314.

195% confidence interval.

During 2001–2004, poor persons were at least twice as likely as nonpoor persons to have untreated dental caries, regardless of age group. In each age group, persons categorized as near poor also were more likely than nonpoor persons to have untreated caries.

SOURCE: CDC. Health data for all ages. National Health and Nutrition Examination Survey, 2001–2004. Available at http://www.cdc.gov/nchs/health_data_for_all_ages.htm.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending August 25, 2007 (34th Week)*

	Current	Cum	5-year weekly	Total o	cases rep	orted for	previous	s years	
Disease	week	2007	average [†]	2006	2005	2004	2003	2002	States reporting cases during current week (No.
Anthrax			arerage	1	_			2	out of the state o
Botulism:		-	_	1	_	_	_	2	
foodborne	3	12	1	20	19	16	20	28	OH (3)
infant	0	53	2	97	85	87	76	69	OH (3)
other (wound & unspecified)	2	15	1	48	31	30	33	21	CA (2)
Brucellosis	2	81	2	121	120	114	104	125	
Chancroid	_	19	1	33	17	30	54	67	FL (1), CA (1)
Cholera		1	0	9	8	5	2	2	
Cyclosporiasis	2	67	4	136	543	171	75	156	EL (1) TV (1)
Diphtheria	~	07	4	130	543	1/1	1	1	FL (1), TX (1)
Domestic arboviral diseases 1:		-	_	_		_	1	1	
California serogroup	_	10	7	67	80	112	108	164	
eastern equine	_	1	1	8	21	6	14	104	
Powassan	_		Ó	1		1	14		
St. Louis	-				1			1	
western equine	-	2	2	10	13	12	41	28	
Ehrlichiosis ¹ :	_	_	-	_	-	-	-	Name	
	13	219	15	646	786	527	200	F44	NIV (A) MAN (Q) MO (A)
human granulocytic			15			537	362	511	NY (4), MN (8), MO (1)
human monocytic	15	273	13	578	506	338	321	216	NY (2), MN (3), MO (1), NC (3), TN (1), AL (1), AR (
human (other & unspecified)	2	80	3	231	112	59	44	23	MO (1), AR (1)
Haemophilus influenzae,**									
invasive disease (age <5 yrs):		0		00		40	20	0.6	
serotype b	2	8	0	29	9	19	32	34	Et in
nonserotype b		61	2	175	135	135	117	144	FL (2)
unknown serotype	2	167	3	179	217	177	227	153	OH (1), SC (1)
Hansen disease	-	31	1	66	87	105	95	96	
Hantavirus pulmonary syndrome ⁶	-	18	0	40	26	24	26	19	and the second second
Hemolytic uremic syndrome, postdiarrheal ⁵	4	115	7	288	221	200	178	216	CT (2), NC (1), CA (1)
Hepatitis C viral, acute	8	414	22	802	652	713	1,102	1,835	NY (2), PA (1), OH (1), KY (2), OK (1), TX (1)
HIV infection, pediatric (age <13 yrs) ^{††}	-		2	52	380	436	504	420	
Influenza-associated pediatric mortality ^{8,55}	_	71	0	43	45	-	N	N	
Listeriosis	13	382	21	875	896	753	696	665	OH (4), IN (2), KS (2), VA (1), NC (2), AL (1), TX (
Measles [®]	1	22	1	55	66	37	56	44	PA (1)
Meningococcal disease, invasive***:		100		210					
A, C, Y, & W-135	100000	175	3	318	297	-	-	-	
serogroup B	-	86	1	193	156	-	name	-	
other serogroup	-	15	0	32	27	-	-		
unknown serogroup	9	424	9	651	765	-	-	-	PA (1), FL (2), AZ (1), OR (2), CA (3)
Mumps	-	540	10	6,584	314	258	231	270	
Novel influenza A virus infections	-	_	_	N	N	N	N	N	
Plague	-	4	0	17	8	3	1	2	
Poliomyelitis, paralytic	-	_	_	_	1	_	-	-	
Poliovirus infection, nonparalytic	-	-	_	N	N	N	N	N	
Psittacosis [§]		4	0	21	16	12	12	18	
Q fever [§]	-	106	2	169	136	70	71	61	
Rabies, human	-	mere:	0	3	2	7	2	3	
Rubella ^{†††}	1	10	0	11	11	10	7	18	AZ (1)
Rubella, congenital syndrome	person.	-	-	1	1	_	1	1	
SARS-CoVIIII	-	_		_	-	-	8	N	
Smallpox [®]	-	_	_	-	-	_	-		
Streptococcal toxic-shock syndrome [®]		73	1	125	129	132	161	118	
Syphilis, congenital (age <1 yr)	1	245	7	380	329	353	413	412	WA (1)
Tetanus	-	9	1	41	27	34	20	25	
Toxic-shock syndrome (staphylococcal) [§]	_	48	2	101	90	95	133	109	
Trichinellosis	-	5	0	15	16	5	6	14	
Tularemia	4	75	4	95	154	134	129	90	TN (1), AR (2), TX (1)
Typhoid fever	2	172	9	353	324	322	356	321	OH (1), FL (1)
Vancomycin-intermediate Staphylococcus aun	eus -	6	_	6	2		N	N	
Vancomycin-resistant Staphylococcus aureus		_	_	1	3	1	N	N	
Vibriosis (noncholera Vibrio species infections		175	8	N	N	N	N	N	NY (3), OH (1), MD (1), GA (1), FL (6), CA (1)
Yellow fever				-				1	the section was the section or tole out (1)

Fellow fever

No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.
Incidence data for reporting years 2006 and 2007 are provisional, whereas data for 2002, 2003, 2004, and 2005 are finalized.
Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phsi/files/5yearweeklyaverage.pdf.
Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/intdis.htm.
includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table II.
The one measles case reported for the current week was indigenous.
Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. A total of 68 cases were reported for the 2006–07 flu season.
The one measles case reported for the current week was unknown.
Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006

			Chlamydi	ia†			Coccid	ioidomyc	osis			Cry	ptosporid	iosis	
			vious	-	_			vious					vious		
Reporting area	Current	Med Med	Max	Cum 2007	Cum 2006	Current week	Med Med	Weeks Max	2007	Cum 2006	Current	Med Med	Max	Cum 2007	2006
United States	12,350	20,619	25.327	658,215	657,905	82	124	658	4,281	5,562	469	76	335	3.393	2,745
New England Connecticut Maine ⁵ Massachusetts New Hampshire Rhode Island ⁵	459 41 294 58 62 4	713 223 48 310 40 66	1,357 829 74 600 70 108	22,369 6,647 1,651 10,142 1,372 2,043	20,778 5,993 1,453 9,249 1,218 2,076		0 0 0 0 0	0 0 0 1	2 N — 2	N	1	4 0 1 1 1 1 0 0	27 21 6 19 4 5	139 21 28 36 31 5	219 38 22 99 26 6
Vermont [§] Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	1,798 238 561 417 582	19 2,642 403 505 875 797	45 4,284 525 2,758 1,686 1,798	514 92,006 12,731 16,597 30,252 32,426	789 80,445 13,041 15,262 26,304 25,838	N N N N	0 0 0 0	0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N N N N N N N N N N N N N N N N N N N	1 40 10 30	10 0 3 1 4	105 5 15 10	18 611 9 108 38 456	28 357 25 83 84 165
E.N. Central Illinois Indiana Michigan Ohio Wisconsin	1,315 728 336 — 81 170	3,154 1,011 385 734 651 373	6,305 1,345 644 1,225 3,653 528	106,339 31,178 13,331 22,304 27,175 12,351	109,953 35,239 13,185 21,663 26,377 13,489	1 - 1 N	0 0 0 0	3 0 0 3 2	19 	32 28 4 N	38 8 30	16 2 1 3 5	91 19 18 10 26 42	548 64 51 96 174 163	747 133 39 80 203 292
W.N. Central lowa Kansas Minnesota Missouri Nebraska [§] North Dakota South Dakota	690 106 222 362	1.199 163 147 236 453 105 30 49	1,448 253 294 314 628 183 69 84	38,246 5,552 5,326 6,759 14,943 3,122 957 1,587	40,090 5,409 5,334 8,365 14,777 3,361 1,132 1,712	222	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	54 0 0 54 1 0	3 N N N N N N N N N N N N N N N N N N N	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30 5 4 13 8	11 2 1 3 1 1 0 2	77 34 8 25 21 16	514 180 50 110 51 46 8	443 95 50 109 90 46 6
S. Atlantic Delaware District of Columbia Florida Georgia Marylandi North Carolina South Carolina Virginiai	3,379 57 99 1,438 5 369 121 797 463 30	3,925 67 97 1,067 663 406 596 467 490 55	6,760 140 167 1,769 3,822 697 1,234 3,030 685 84	129,366 2,289 3,754 37,006 15,424 13,011 18,362 21,690 15,941 1,889	126,096 2,330 1,938 31,856 23,137 13,627 22,054 13,862 15,390 1,902	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0	2 N N 2 N N 2	3 Z Z 3 Z Z Z	32 5 1 2 2	21 0 0 10 4 0 1 1 1	70 3 2 32 17 2 11 14 5 3	549 6 3 288 98 18 52 42 37 5	507 7 11 199 142 12 53 55 24
E.S. Central Alabama Kentucky Mississippi Tennessee	1,071 222 350 499	1,390 321 120 355 509	2,044 539 691 959 695	43,621 7,299 4,917 13,485 17,920	50,468 15,424 6,108 12,580 16,356	N N N	0 0 0	0 0 0	Z Z Z Z	N N N	22 3 14 5	3 1 1 0	26 12 13 8 7	176 38 88 14 36	88 28 27 9
W.S. Central Arkansas® Louisiana Oklahoma Texas®	1,951 256 133 419 1,143	2,297 168 356 282 1,482	3,028 337 855 467 1,911	77,728 5,540 12,555 8,745 50,888	73,825 5,107 11,722 7,370 49,626	N	0 0 0 0	1 0 1 0	1 N 1 N	1 N 1 N	5	5 0 1 1 2	45 3 9 13 36	154 6 31 57 60	158 13 50 23 72
Mountaiin Arizona Colorado Idaho ^{il} Montana ^{il} Nevada ^{il} New Mexico ^{il} Utah Wyoming ^{il}	233 103 — — — — 118 12	1,327 483 257 56 50 185 159 102 24	2,026 993 416 253 82 397 396 209	38,575 13,629 6,075 2,242 1,488 5,935 4,943 3,485 778	43.482 13,703 10,544 1,959 1,653 4,875 6,590 3,186 972	70 70 N N	77 73 0 0 0 1	293 293 0 0 0 5 2 4	2.428 2.333 N N N 38 16 38	3.905 3.804 N N N 44 15 40 2	290 18 	5 0 1 0 1 0 1 0 0	92 6 10 5 25 3 6 72	633 23 54 37 34 6 43 412 24	171 19 32 10 51 6 22 8
Pacific Alaska California Hawaii Oregon [®] Washington	1,454 86 1,218	3,375 87 2,684 103 160	4,362 157 3,627 129 394 621	109,965 2,854 87,986 3,308 5,592 10,225	112,768 2,855 88,297 3,795 6,155 11,666	11 N 11 N N	50 0 50 0 0	311 0 311 0 0	1,826 N 1,826 N N	1,621 N 1,621 N N	1 - 1	1 0 0 0	9 2 0 1 9	69 3 — 66	55 4 4 47
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	152 U	9 118	32 72 547 7	129 5,080 U	590 3,149 U	U N U	0 0 0	0 0 0	U U	טט	- N U	0 0 0	0 0 0 0	מאורט	

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

Incidence data for reporting years 2006 and 2007 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. Chlamydia refers to genital infections caused by Chlamydia trachomatis.

Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006 (34th Week)*

			Giardiasi	s				onorrhea			Hae	All age	s, all ser	zae, invas otypes†	ive
	Current	Previ		Cum	Cum	Current		vious weeks	Cum	Cum	Current		vious veeks	Cum	Cum
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006
United States	245	297	1,514	9,320	10,630	4,808	6,705	8,941	213,009	227,896	19	45	184	1,497	1,545
New England	12	24	67	697	822	54	114	259	3,580	3,546	_	3	19	118	121
Connecticut	-	5	25	188	159	_	47	204	1,337	1,401	_	0	6	31	35
Maine ⁶	10	3	12 24	107 271	91 390	33	51	8 96	1,742	82 1,572	_	0	2	7 58	15 52
Massachusetts New Hampshire	_	0	3	13	19	6	3	8	104	133	-	0	2	13	8
Rhode Island ⁶	-	0	17	31	67	9	8	18	271	309	-	0	10	7	4
Vermont ⁶	2	3	12	87	96	2	1	5	38	49	-	0	1	2	7
Mid. Atlantic	60	55	127	1,686	2,132	514	717	1,537	24,150	21,198	_	10	27	321	321
New Jersey New York (Upstate)	42	6 24	17 108	142 642	321 708	98 149	114	1.035	3,708 4,016	3,442 3.958	_	3	15	46 91	57 99
New York City	1	16	32	497	619	75	192	376	6,470	6,419	_	2	6	62	60
Pennsylvania	17	14	34	405	484	192	247	613	9,956	7,379	_	3	10	122	105
E.N. Central	27	44	99	1,268	1,725	512	1,232	2,613	42,397	44,636	8	5	15	188	258
Illinois	N	10	23	283 N	444 N	257 157	359 159	508 306	11,251 5,639	13,142 5,748	5	1	6	45 42	78 50
Indiana Michigan	IV	13	38	359	437	137	294	880	9,212	8.592	_	Ó	5	20	22
Ohio	27	15	32	456	489	37	274	1,568	12,025	12,661	3	2	5	72	58
Wisconsin	_	7	27	170	355	61	132	181	4,270	4,493	-	0	4	9	50
W.N. Central	23	20	553	574	1,181	241	383	512	12,323	12,463	-	3	24	85	93
lowa Kansas	3	5	16	145 90	179 127	14 73	39 44	62 86	1,213 1,532	1,162 1,465	_	0	2	9	14
Minnesota	-	o	514	12	414	_	60	87	1,764	2,089	_	1	17	35	47
Missouri	19	7	28	219	312	154	200	266	6,711	6,573	_	1	5	26	22
Nebraska [§]	_	2	9	61	76 12	1000	28	57	885 59	850 76	_	0	2	12	5
North Dakota South Dakota	_	1	6	36	61	_	6	15	159	248	_	0	0	_	_
S. Atlantic	53	57	106	1,698	1.591	1,790	1,634	3,209	50,365	56,207	6	11	34	382	385
Delaware	-	1	3	24	26	20	28	44	900	959	_	0	3	5	1
District of Columbia Florida	27	0 24	7	34 782	45 648	36 578	45 471	72 717	1,514 15,344	1,136 15,721	2	0	2	115	120
Georgia	4	12	31	340	381	3	303	2,068	6,275	11,237	2	2	7	73	81
Maryland ⁶	4	4	12	151	143	115	130	227	4,107	4,681	-	2	6	61	50
North Carolina South Carolina [§]	4	0	0	61	69	571 321	283 199	675 1,361	8,564 9,239	11,370 6,436	1	0	9	43 36	27
Virginia [§]	14	10	28	286	262	133	123	236	3,853		_	1	6	28	44
West Virginia	_	0	21	20	17	13	18	44	569		1	0	6	18	15
E.S. Central	6	9	21	299	265	451	537	752	16,612		-	2	9	87	80
Alabama ^a	4	4	16	147 N	122 N	98	141	242 268	3,283 1,851		_	0	3	18	17
Kentucky Mississippi	N N	0	0	N	N	129	148	310	5,053		_	0	1	6	10
Tennessee [§]	2	5	16	152	143	224	194	239	6,425		-	2	6	61	48
W.S. Central	4	7	56	214	191	794	980	1,490	32,219		2	1	34	73	6
Arkansas [§]	1	3	13	68	68	89	79	142	2,552		_	0	2	5	
Louisiana Oklahoma	3	2	6 43	59 87	53 70	91 172	219 99	384 235	7,288		2	0	3 29	5 59	13
Texas [§]	N	0	0	N	N	442	575	938	19,044		_	0	3	4	(
Mountain	24	30	67	910	1,000	53	254	454	7,511	9,670	3	4	11	161	154
Arizona	3	3	11	100	99	35	109	220	2,879	3,423	1	1	6	56	6
Colorado Idaho ⁶	8	10	26 12	281 105	332 110	_	57	93	1,487		_	0	4	40	40
Montana [§]	_	2	10	57	57	_	2	8	50	137		0	Ó		-
Nevada [§]	_	2	8	75	78	_	48	135			transmi	0	2	9	10
New Mexico [§] Utah	13	2	6 27	62 206	46 257	17	28 18	52 34			2	0	3	24 26	2
Wyoming ⁶	-	1	4	24	21	1	2	5			_	0	1	2	1
Pacific	36	60	558	1,974	1,723	399	726	900	23,852	27,254	_	2	16	82	7
Alaska	2	1	17	40	37	15	10	27	306	381	_	0	2	8	
California	26	43	93	1,360 46	1,389	362	612 12	768 23				0	10	20	2
Oregon [§]	8	8	14	264	260	_	23	46			_	1	6	46	2
Washington		3	449	264	-	22	66	142			_	0	5	2	-
American Samoa	U	0	0	U	U	U	0	2			U	0	0	U	
C.N.M.I. Guam	U	0	0	U	U	U	1	7	2		U	0	0	U	
Puerto Rico	-	6	19	131	125	9	6				_	0	2	2	
U.S. Virgin Islands	U		0	U	U	U	1	3			U	0	0	Ū	

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. † Incidence data for reporting years 2006 and 2007 are provisional.
Data for H. influenzae (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I.
Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006 (34th Week)*

				iitis (viral,	acute), by t	урет		D				1.	egionellos	ie	
		Previ	A				Prev	B					vious	BIS	
	Current	52 we		Cum	Cum	Current		eeks	Cum	Cum	Current		veeks	Cum	Cum
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006
United States	35	54	201	1,675	2,268	44	77	406	2,457	2,824	46	42	109	1,211	1,479
New England	1	2	6	62	130	-	2	5	43	76	3	2	13	70	97
Connecticut Maine®	1	0	3	10	27 7	_	0	5 2	21	30 15	3	0	9	22	19
Massachusetts	******	1	4	28	62	_	0	1	4	15	_	0	5	14	49
New Hampshire	action.	0	3	10	20	-	0	1	5	7	_	0	2	4	8
Rhode Island [§] Vermont [§]	-	0	2	8	8	_	0	4	10	8	_	0	6 2	23 5	12
Mid. Atlantic	9	7	20	246	235	4	8	21	280	346	14	12	55	370	485
New Jersey	_	2	5	56	72	_	2	7	53	110	-	1	10	33	63
New York (Upstate)	6	1	11	50	51	4	1	13	56	45	3	5	30	114	163
New York City Pennsylvania	2	2	10	84 56	72 40	-	2	6	56 115	80 111	11	2 5	24 19	57 166	84 175
E.N. Central	3	5	17	163	204	3	9	23	275	336	10	8	27	236	332
Illinois		2	7	60	55		2	6	76	94		1	13	30	64
Indiana	1	0	7	9	16	-	0	21	29	34	-	1	6	21	27
Michigan Ohio	2	2	8	42 45	67 39	3	2	8	70 88	96 86	10	3	10 12	79 98	78 134
Wisconsin	_	O	4	7	27		ō	3	12	26	_	0	3	8	29
W.N. Central	1	2	18	104	92	1	2	15	78	99	3	1	8	49	54
Iowa	xxxiv	0	4	25	8	_	0	3	14	16	_	0	1	6	10
Kansas Minnesota	_	0	17	2 49	22	1	0	13	6	8 12		0	6	15	11
Missouri	1	0	2	16	32	_	0	5	33	51	2	0	2	19	17
Nebraska [§]	-	0	2	7	12	-	0	3	8	8	-	0	1	4	7
North Dakota South Dakota	_	0	3	5	9	_	0	1	3	4	-	0	1	3	-
S. Atlantic	8	10	27	326	341	17	20	56	634	792	10	7	25	225	269
Delaware	-	0	1	3	11	17	0	3	11	34	10	ó	2	5	208
District of Columbia	-	0	5	14	5	-	0	2	1	5		0	4	1	14
Florida	2	3	11	94 48	130 42	2	7	14	229 70	268 137	7	2	9	92	106
Georgia Maryland [§]	3	1	6	53	37	2	2	7	67	106	1	2	8	42	53
North Carolina	-	0	11	37	60	10	0	16	89	105	-	1	4	29	23
South Carolina	3	0	4 5	12	15 37	-	1 3	5	42 92	58 36	1	0	2	11	3
Virginia ⁹ West Virginia	_	0	1	60 5	4	2	0	8 23	33	43	1	0	4	26 5	3
E.S. Central	2	2	7	62	91	2	6	17	209	220	1	2	7	64	58
Alabama [§]	_	0	2	10	11	1	2	10	73	67	-	0	1	7	8
Kentucky	_	0	2	11	28	-	1	7	40	48	1	1	6	32	18
Mississippi Tennessee ⁶	2	0	5	6 35	5 47	í	0	8	14 82	96	_	0	1 4	25	29
W.S. Central	_	5	43	126	230	9	18	170	501	531	2	1	16	62	5
Arkansas [§]	-	0	2	8	39	_	1	7	37	45	_	0	3	4	
Louisiana	-	1	4	19	14	_	1	4	50	41		0	1	3	10
Oklahoma Texas ⁵	_	0	39	3 96	173	9	14	25 135	21 393	23 422	2	0	6	4 51	36
Mountain	7	5	15	152	179	_	3	7	116	98	1	2	8	59	7.
Arizona	6	3	11	105	98	_	0	3	40	-	1	ō	4	18	2
Colorado	_	1	3	20	29	_	0	2	20	28	later	0	2	11	16
Idaho [®] Montana [®]	1	0	1 3	3	8	_	0	1 3	8	10	_	0	3	4 3	
Nevada ⁶		0	2	8	9	-	1	3	27	25	-	0	2	6	
New Mexico®	-	0	2	5	12	_	0	2	7	16	lame.	0	2	6	
Utah Wyoming ⁶	-	0	1	3 2	12	_	0	4	13	19	-	0	2	8	10
Pacific	4	13	92	434	766	8	10	106	321	326	2	2	11	76	5
Alaska	-	0	1	3	1	_	0	3	4	3	-	0	1	-	-
California	4	10	40	377	725	8	7	31	240	266	2	1	11	58	5
Hawaii		0	2	4 21	10 30	_	0	5	43	5 52	_	0	1	1 6	-
Oregon ⁵ Washington	_	0	52	29	-	_	0	74	32	52	_	0	2	11	-
American Samoa	U	0	0	U	U	U	0	0	U	U	U	0	0	U	
C.N.M.I.	Ü	_	-	U	U	U	_	_	Ü	U	U	-	-	U	-
Guam Puerto Rico	-	0	0	38	43	-	0	0	41	42		0	0 2	3	
Puerto Rico U.S. Virgin Islands	U	0	0	U	43 U	U	0	0	41 U	42 U	U	0	0	Ü	

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
Incidence data for reporting years 2006 and 2007 are provisional.
Data for acute hepatitis C, viral are available in Table I.

Scontains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006 (34th Week)*

		Ly	me disea	ise			N.	Malaria			wei		serogrou	se, invasiv ips	re.
		Previ	ous					ious				Pre	vious		
Reporting area	Current	52 we	Max	Cum 2007	Cum 2006	Current	52 w Med	eeks Max	2007	2006	Current	Med Med	weeks Max	Cum 2007	2006
United States	297	235	981	10,597	13,267	20	22	105	663	918	9	19	87	700	800
New England	92	39	274	1,979	3,179	-	1	5	29	39	-	1	3	32	33
Connecticut	90	12	214	1,239	1,325	_	0	3	1	10	_	0	1	6	9
Maine ^s Massachusetts	_	3	41 28	148 21	57 1,223	_	0	1 3	5 16	3 18	_	0	3 2	5 17	16
New Hampshire	2	7	62	494	509	_	0	4	6	7	-	0	1	_	3
Rhode Islandi	-	0	93	3	1	_	0	1	_	_		0	1	1	
Vermont ⁶	-	1	10	74	64	_	0	1	1	1	_	0	1	3	2
Mid. Atlantic New Jersey	151	133 26	487 67	5,624 961	6,715 1,952		6	18	154	224 66	1	2	8 2	98 11	130
New York (Upstate)	114	50	426	1,870	2.205	_	1	7	37	20	_	1	3	25	30
New York City		2	18	66	219	_	3	8	98	107	_	0	4	25	48
Pennsylvania	36	44	249	2,727	2,339	_	1	4	19	31	1	1	5	37	36
E.N. Central Illinois	_	6	34	194 58	1,481	2	2	10	64 25	103 51	_	3	9	90 25	116
Indiana	_	0	5	24	19	_	o	2	5	9		0	4	17	17
Michigan	4600	1	6	32	36	2	0	2	9	15	_	0	3	16	21
Ohio Wisconsin	_	0	31	10 70	35 1,293	2	0	2	17	20	_	0	3	24	32 16
W.N. Central	4	4	195	279	330	_	0	12	22	30	-	1	5	40	46
lowa	_	1	10	68	87	_	o	1	2	1	_	Ó	3	10	12
Kansas	_	0	2	9	3	_	0	1	2	5	_	0	1	1	2
Minnesota Missouri	3	0	188	180 15	230	_	0	12	11 2	14	_	0	3	12 10	10
Nebraska [§]	_	0	2	5	7	_	o	1	4	2	_	0	1	2	6
North Dakota	_	0	7	2	_	_	0	1	_	1	-	0	3	2	1
South Dakota		0	0		1	_	0	1	1	1	_	0	1	3	2
S. Atlantic Delaware	45	48 10	151 34	2,324 497	1,453 361	10	5	13	166	243	2	3	11	113	135
District of Columbia	-	0	7	13	31	_	0	2	3	3		0	1	_	1
Flonda	5	1	4	40	13	4	1	7	40	39	2	1	7	43	52
Georgia Maryland ⁶	12	25	108	1,216	843	2	0	5	22	71 57	_	0	3 2	12 18	10
North Carolina	-	0	6	31	21	1	0	4	17	18	_	0	6	14	23
South Carolina [§] Virginia [§]	20	10	60	15 472	12 158	2	0	1	5 32	8	_	0	2	11	16
West Virginia	_	0	14	39	7	_	o	1	2	40	=	0	2	12	15
E.S. Central	-	1	5	36	23	2	0	3	25	21	_	1	4	35	30
Alabama ⁶	_	0	3	9	7	1	0	2	5	8	_	0	2	6	4
Kentucky Mississippi	-	0	2	3	3	1	0	1	6	3	_	0	2	7 9	7
Tennessee [§]		0	4	24	10	_	0	2	13	5	_	0	2	13	15
W.S. Central	1	1	5	40	14	_	2	29	60	62	-0000	2	15	75	78
Arkansas [§]	-	0	0	_	-	_	0	2	_	2	_	0	2	8	9
Louisiana Oklahoma	_	0	1	2	-	_	0	2	13	4 7	-	0	4	24 14	31
Texas [§]	1	1	5	38	14	_	1	25	42	49	_	0	11	29	30
Mountain	1	1	3	27	16	1	1	6	36	51	1	1	4	45	50
Arizona	1	0	1	2	5		0	3	5	17	1	0	2	9	13
Colorado Idaho [§]	_	0	1 2	7	2	-	0	2	12	12	_	0	2	16	15
Montana [§]	_	o	1	1	_	_	0	1	3	2	_	0	1	1	
Nevada ⁵	_	0	2	7	2	-	0	1	2	2	_	0	1	4	4
New Mexico [§] Utah	_	0	2	3	3	1	0	1	10	5 13	_	0	1 2	2 8	
Wyoming ⁶	_	0	1	3	1	_	0	0	_	-	_	0	1	2	2
Pacific	3	2	16	94	56	5	3	45	107	145	5	4	48	172	182
Alaska California	1	0	1	5	2	_	0	1	2	22	-	0	1	1	1
Hawaii	2 N	2	10	86 N	49 N	5	2	7	75 2	107	3	3	10	124	14
Oregon [§]		0	1	3	5	_	0	3	12	8	2	0	3	26	3
Washington	_	0	8		_	_	0	43	16	-	_	0	43	17	-
American Samoa C.N.M.I.	U	0	0	U	U	U	0	0	U	U	U	0	0	-	-
Guam	U	0	0	U	U	U	0	0	U	U	U	0	0	_	_
Puerto Rico	N	0	0	N	N	-	0	1	2	_	_	0	1	6	-
U.S. Virgin Islands	U	0	0	U	U	U	0	0	U	U	U	0	0	-	_

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
Incidence data for reporting years 2006 and 2007 are provisional.
Data for meningococcal disease, invasive caused by serogroups A, C, Y, & W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I.
Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006 (34th Week)*

			Pertussis					ies, anim	al		R	ocky Mo	untain sp	otted feve	r
		Prev		_				/ious	-			Pre	vious		
Reporting area	Current	Med Med	eeks Max	Cum 2007	Cum 2006	Current	Med Med	Max	Cum 2007	Cum 2006	Current	Med Med	Max	Cum 2007	Cum 2006
United States	81	176	1,479	5,336	9.073	65	93	171	3,005	3,525	47	32	211	1,062	1,342
New England	_	29	77	757	1,032	16	12	22	382	263	1000	0	10	-	9
Connecticut	_	2	6	37	67	10	5	11	155	116	-	0	0	-	_
Maine¹ Massachusetts		2 22	15 46	40 613	59 651	_	2	8	51	65	-	0	0	-	8
New Hampshire		2	9	36	145	_	1	4	32	26	-	0	Ó	-	1
Rhode Island [†]	_	0	31	4	28	1	0	3	26	17	_	0	9	_	_
Vermont ¹	-	1	9	27	82	5	2	13	118	39	_	0	0	-	-
Mid. Atlantic New Jersey	12	26	155 16	755 79	1,136	-	13	44	503	326	-	1	6	36 4	63
New York (Upstate)	11	15	146	403	476	_	_	_	_	_	_	0	1	3	31
New York City	-	2	6	76	65		1	5	32	16	-	0	3	15	17
Pennsylvania	1	7	20	197	395	-	12	44	471	310		0	3	14	15
E.N. Central	21	34	80	984	1,340	15	2	30	204	114	1	1	4	28	50
Ilinois ndiana	1	4	23 45	97 42	336 144	4	1	15	70 8	34	1	0	3 2	16	24
Michigan	_	8	39	172	309	-	1	17	78	37	-	0	1	3	2
Ohio	20	14	54	474	394	11	0	8	48	35	_	0	2	4	18
Wisconsin	-	4	24	199	157	_	0	0	-	-	-	0	0	_	1
W.N. Central owa	15	14	151 16	428 105	853 210	4	5	17	184	222 46	4	3	12	123	135
Kansas	2	3	14	99	178	_	2	8	89	55	_	0	1	1	-
Minnesota	13	0	119	103	136	2	0	5	20	31	-	0	2	1	
Missouri	-	2	10	45	215	2	0	6	28	44	4	2	12	103	110
Nebraska† North Dakota		1	18	29	75 20	-	0	0	13	15	_	0	2	8	20
South Dakota	-	0	6	43	19	_	0	2	13	31	-	0	1	3	-
S. Atlantic	8	19	163	615	720	24	40	63	1,308	1,560	17	13	67	562	752
Delaware	-	0	2	7	3	-	0	0		-	, description	0	2	8	18
District of Columbia Florida	3	0	18	158	3 141		0	28	87	176	_	0	1 4	12	(
Georgia	_	1	5	22	62	11	4	23	152	182	_	0	5	15	35
Maryland ¹	3	2	8	73	99	_	6	12	182	285	_	1	7	41	5
North Carolina	1	3	112	213 54	141 115	13	9 2	19 11	333 46	337 106	14	6	61	371 41	539
South Carolina [†] Virginia [†]	1	2	17	74	133	_	13	31	462	405	3	2	9	71	29
West Virginia	_	0	19	12	23		1	8	46	69	-	0	1	2	
E.S. Central	_	5	24	155	217	_	3	11	100	165	9	5	27	165	224
Alabama ¹	-	1 0	18	47 5	40 48	_	0	8	15	52	5	1	9	48	57
Kentucky Mississippi	_	0	10	40	24	_	0	3	15	15	Angen	0	1	2	
Tennessee ¹	_	2	7	63	105	_	2	7	85	94	4	3	22	111	163
W.S. Central	_	20	226	590	522		2	35	68	606	15	1	168	120	75
Arkansas [†]		2	17	112	58 21	-	0	5	23	24	15	0	53	56	34
Louisiana Oklahoma	_	0	36	4	18	_	0	22	45	48		0	108	45	2
Texas [†]		17	174	460	425	-	0	34	-	531	-	0	7	17	14
Mountain	24	24	61	729	1,882	1	3	28	116	123	_	0	4	23	34
Arizona	-	6	13	152	384	-	2	10	77	91	_	0	2	3	
Colorado Idaho¹	1	6	17	193 32	590 57	_	0	24	_	_	_	0	3	1 4	
Montana [†]	-	1	7	32	91		0	3	12	12	-	0	1	1	
Nevada [†]	-	0	5	9	56	_	0	2	2	3	10000	0	0	-	-
New Mexico ¹ Utah	23	2	8 47	41 252	66 579	1	0	2 2	8	7	_	0	0	4	
Wyoming [†]	23	8	5	18	59		0	2	8	4	-	0	2	10	
Pacific	1	13	547	323	1,371	5	4	13	140	146	1	0	1	5	
Alaska		1	8	37	57		0	6	35	14	N	0	0	N	1
California	-	5	167	99	1,149	5 N	3	12	99	120 N	1	0	1	3 N	
Hawaii Oregon [†]	1	0	11	14 57	79 86	N	0	0	N 6	12	N	0	1	2	
Washington	_	1	377	116	_	_	0	0	_	-	N	0	Ó	N	
American Samoa	U	0	0	U	U	U	0	0	U	U	U	0	0	U	
C.N.M.I.	U		_	U	U	U	-	-	U	U	U	_	_	U	
Guam Puerto Rico		0	6	-	49	2	0	0	37	59	N	0	0	N	1
U.S. Virgin Islands	U	0	Ó	U	Ü	Ü	0	0	U	U	Ü	0	0	Ü	i

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Incidence data for reporting years 2006 and 2007 are provisional.
Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006

		Si	almonello	sis		Shigat			coli(STE	C)†			Shigellosi	S	
		Prev						ious			0		vious	0	0
Reporting area	Current	52 we	eeks Max	2007	Cum 2006	Current	Med Med	Max	2007	Cum 2006	Current	Med	weeks Max	Cum 2007	2006
United States	659	838	2,338	24,443	25,884	74	77	336	2,316	2,264	312	325	1,287	9,357	7,704
New England	-	36	282	1,334	1,572	2	3	40	149	214	_	4	25	136	206
Connecticut	-	0	267	267	503	_	0	35	35	75	-	0	22	22 13	67
Maine ⁶	_	3	14	75	81 766	-	0	10	20 74	26 75	_	0	5	91	121
Massachusetts New Hampshire	_	23	60 15	775 109	130	_	0	3	8	20	-	0	2	4	4
Rhode Island ⁵		2	20	56	56	1	0	2	5	4	-	0	3	4	8
Vermont [§]	and the same of	2	6	52	36	1	0	3	7	14	-	0	2	2	3
Mid. Atlantic	64	99	186	3,135	3,310	13	8	63	238	286	8	12	47	403	644
New Jersey	_	12	41	281	725	-	1	20	14	88 94	5	3	5 42	33 88	251 163
New York (Upstate)	41	29 24	112 42	885 800	722 815	10	3	15	113	33	1	5	12	152	172
New York City Pennsylvania	18	33	67	1,169	1,048	3	3	47	89	71	2	2	21	130	58
		101	180	3,347	3.622	11	9	63	280	346	113	32	85	1.268	851
E.N. Central Illinois	60	30	107	1,002	1.067	-	1	8	29	64	_	11	51	289	390
Indiana	28	15	55	456	500	1	1	8	43	46	7	2	17	66	87
Michigan	-	18	35	534	668		1	6	43	57	106	1	4 68	36 728	114
Ohio	32	25	65 49	856 499	777 610	9	2	18 41	87 78	88 91	100	6	13	149	156
Wisconsin	-	16								400	4.4	43	156	1.264	1.042
W.N. Central	26	49	102	1,634	1,648 286	8	12	45 38	402 87	88	14	2	14	52	63
lowa Kansas	7	9 7	26 20	253	227	_	0	4	32	18		1	10	18	80
Minnesota	6	14	44	435	408	6	4	26	152	109	1	5	24	162	76
Missouri	13	14	31	402	482	2	2	9	65	120	11	18	72	908	491
Nebraska [§]	_	4	11	133	130 18	_	0	11 12	45	36	_	0	14 127	14	92
North Dakota South Dakota	_	0 2	23 11	22 99	97	_	0	5	20	27	2	4	30	105	210
					6.393	12	15	37	420	346	103	87	174	3.079	1,739
S. Atlantic	376	219	401	6,424	92	12	0	3	12	7	103	0	1	7	7
Delaware District of Columbia	-	0	4	16	39	-	0	1	1	1	-	0	5	4	9
Florida	118	85	176	2,525	2,654	2	2	8	97	56	68	46	76	1,654	794
Georgia	63	32	73	1,075	1,047	1	2	6	49 64	54 58	18	34	92	1,111	626 82
Maryland ⁹	21	15 29	33 130	523 896	455 851	2	2	10 24	84	61	3	1	14	49	103
North Carolina South Carolina	108	18	51	578	599	_	0	2	10	9	7	1	6	78	71
Virginia ⁶	21	20	46	603	593	4	3	10	93	96	7	3	9	97	45
West Virginia	7	2	31	117	63	-	0	5	10	4		0	6	7	2
E.S. Central	31	55	136	1,619	1,641	5	4	25	168	179	26	21	89	940	412
Alabama [§]	6	14	78	474	463	_	0	18	52	15	3	8	67	361 250	117
Kentucky	9	9	23	339	282	1	0	8 2	51	51	21	3	32 76	206	160 52
Mississippi Tennessee [§]	16	9	101 34	293 513	435 461	4	2	8	63	107	2		14	123	83
				2.250	2.815		4	73	112	126	19		655	1,015	1,100
W.S. Central	21	86 14	595 45	374	502	_	1	7	19	20	15	2	10	65	58
Arkansas [§] Louisiana	_	17	48	447	610	_	0	2	3	13	_	9	25	316	104
Oklahoma	18	8	103	291	278	_	0	17	14	10	2		63	72	71
Texas [§]	-	44	470	1,138	1,425	_	2	68	76	83	17		580	562	867
Mountain	25	45	90	1,408	1,697	12	8	34	306	298	19		84	514	688
Arizona	14	13	44	416	500	4	2	9	75 52	58 75	18	10	37 15	287 68	359
Colorado	3	10	21	337 86	452 116	6	2	16	88	52	_	0		8	13
Idaho [§] Montana [§]	_	2	6	60	91		0	0	_	_	_	. 0		14	(
Nevada ⁶	_	4	10	123	141	-	0	5	16	18	_		20	25	63
New Mexico§	1	5	12	149	171	_	1	4	23	28	_	2	15	66	38
Utah Whoming [®]	7	4	14	187 50	191 35	2	1 0	14	52	57 10	_1		19	17 29	30
Wyoming ⁶									044		10				1,022
Pacific	56 2		890	3,292 56	3,186	11 N	5	164	241 N	69 N	10	29		738	1,022
Alaska California	53		260	2.469	2.710	4	1	15	129	N	10			595	897
Hawaii	-	. 5	16	166	146	_	O	3	15	12	_	- 0	3	18	30
Oregon [§]	1		17	211	276	7	1	9	47	57	-				8
Washington	_	. 7		390	2	_	0		50	_	_	- 1			_
American Samoa	U		0	U	U	U		0	U	U			0		
C.N.M.I.	U	0		U	U	U		0	N	U	-		0	U	1
Guam Puerto Rico	-				328	N	. 0		N	14	_	- 0			3
U.S. Virgin Islands	i i				U	U			U	U	(1

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TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006

	Stre			invasive, gr	oup A	Streptococcus pneumoniae, invasive disease, nondrug resistant [†] Age <5 years							
Dan antinua and	Current	52 w	-	Cum	Cum	Current	52 w	vious veeks	Cum	Cum			
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006			
nited States	51	93	261	3,538	3,873	8	30	110	1,055	879			
lew England	_	6	27	287	254	-	3	11	76	72			
Connecticut	_	0	23	91	68	-	0	6	_	23			
Maine [§]	_	0	3	21	15	-	0	1	1	-			
Massachusetts New Hampshire		3	12	131 29	128 29	_	2	6 2	58	42 6			
Rhode Island	_	0	12	-	5	_	0	3	8	1			
/ermont ⁶	_	0	2	15	9	_	0	1	2	_			
Mid. Atlantic	5	16	41	669	719	_	5	27	171	125			
lew Jersey	-	2	9	89	121		1	4	21	46			
New York (Úpstate)	3	5	27	225	233	_	2	15	76	65			
New York City	_	4	13	157	131	-	1	25	74	14			
Pennsylvania	2	5	11	198	234	N	0	0	N	N			
E.N. Central	5	16	32	617	760	_	5	14	161	235			
Ilinois	_	4	13	158	230	_	1	6	38	62			
ndiana	1	2	17	100	90		0	10	15	42			
Michigan Dhio	4	3	10 14	152 179	160 194	_	1	4 7	55 44	54 46			
Nisconsin	-	1	6	28	86	_	0	2	9	31			
	0					4	2						
W.N. Central owa	9	5	32	241	250	1	0	8	74	72			
Kansas	1	0	3	28	45	1	0	1	2	11			
Minnesota	8	0	29	124	116	-	1	6	51	42			
Missouri	_	2	6	53	51	-	0	2	13	11			
Nebraska [§]	-	0	3	18	22	-	0	2	7	5			
North Dakota	_	0	2	11	8	-	0	2	1	3			
South Dakota	_	0	2	7	8		0	0	-	_			
S. Atlantic	17	21	52	889	855	3	3	14	194	59			
Delaware	-	0	2	7	9	-	0	0	-	-			
District of Columbia Florida	6	6	3 16	8 213	9 203	1	0	1 5	42	1			
Georgia	4	5	13	169	179	_	0	5	44	_			
Maryland [§]	3	4	10	160	159	_	1	6	46	48			
North Carolina	2	0	22	128	126	-	0	0	-	_			
South Carolina ⁵	-	1	7	74	53	2	0	3	27	-			
Virginia ⁶	1	2	11	109	96	-	0	4	28	40			
West Virginia	1	0	3	21	21		0	4	7	10			
E.S. Central	2	4	13	161	158	_	1	6	62	15			
Alabama	N	0	0	N	N	N	0	0	N	N			
Kentucky Mississippi	N	0	3	32 N	38 N	_	0	0 2	3	15			
Tennessee§	2	3	13	129	120	_	0	6	59	15			
W.S. Central	7	6	90	231	292	2	4	45	152	147			
Arkansas [§]	_	0	2	17	23	-	0	2	7	18			
Louisiana	_	0	4	16	13	_	0	4	24	17			
Oklahoma	3	1	23	56	74	_	1	15	37	31			
Texas ⁹	4	3	64	142	182	2	1	27	84	81			
Mountain	5	9	20	349	511	2	4	12	141	139			
Arizona	2	3	11	107	266	2	2	7	84	78			
Colorado	-	3	9	115	89	-	1	4	32	36			
Idaho!	1 N	0	2	11 N	N	N	0	0	2 N	1 N			
Montana [§] Nevada [§]	N	0	1	N 2	14	IN .	0	1	1	2			
New Mexico	1	1	5	37	96	-	0	4	18	22			
Utah	1	2	7	72	50	process	0	2	4	-			
Wyomings	-	0	1	5	3		0	0	-				
Pacific	1	3	9	94	74	_	1	4	24	15			
Alaska	1	0	3	26	N	-	0	2	22	-			
California	N	0	0	N	N	N	0	0	N	N			
Hawaii		2	9	68	74		0	2	2	15			
Oregon [§] Washington	N	0	0	N	N	N N	0	0	N	N			
					N								
American Samoa	U	0	0	U	U	U	0	0	U	U			
C.N.M.I. Guam	U	0	0	U	U	U	0	0	N	U			
Puerto Rico	_	0	0	_		N	0	0	N	N			
U.S. Virgin Islands	U	0	0	U	U	Ü	0	0	Ü	Ü			

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Incidence data for report

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006

		31	reptococo	istant													
			Ali ages				Age	<5 years	3		Syphilis, primary and secondary						
		Prev			rious		Previous										
	Current	52 w	eeks	Cum	Cum	Current		eeks	Cum	Cum	Current		veeks	Cum	Cum		
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006		
United States	22	47	256	1,575	1,696	5	8	35	282	258	150	198	310	6,440	6,100		
New England	1	1	12	35	94	****	0	3	6	2	_	4	13	153	139		
Connecticut	-	0	5	_	71	_	0	0	-	-	_	1	10	22 5	29		
Maine ⁶		0	2	9	6		0	2	1	1	_	0 2	8	90	85		
Massachusetts New Hampshire	_	0	0		_	_	0	0	_	_	-	0	3	21	9		
Rhode Island	_	0	4	14	8	_	0	1	3	_	_	0	5	14	7		
Vermont [§]	1	0	2	12	9	_	0	1	2	1	-	0	1	1	2		
Mid. Atlantic	_	2	9	91	105	_	0	5	21	14	32	27	45	1,014	739		
New Jersey	-	0	0	_		_	0	0	7	7	5	3	8	123 92	113 95		
New York (Upstate)	_	0	5	32	33	_	0	4	_	_	21	16	35	626	351		
New York City Pennsylvania	_	1	6	59	72	_	0	2	14	7	2	5	10	173	180		
	3	9	40	384	368	2	1	7	51	56	10	15	27	506	585		
E.N. Central Illinois	3	0	4	13	19	_	0	1	2	5	2	7	15	233	290		
Indiana	-	2	31	99	97	1	0	5	14	15	2	1	6	36	55		
Michigan	-	0	1	2	15	_	0	1	1	2	6	2	8	76 120	76 122		
Ohio	3 N	5	38	270 N	237 N	1	1	5	34	34	-	3	9	41	42		
Wisconsin									7	4	0		14	228	191		
W.N. Central	_	2	124	108	31	_	0	15	7	1	8	6	3	10	13		
lowa Kansas	_	0	10	60	_	_	0	2	3	_	1	0	3	15	16		
Minnesota	_	Õ	123		1	_	0	15	-	_	_	1	5	50	36		
Missouri	_	1	5	40	29	_	0	1	_	1	7	3	12	148	115		
Nebraska [§]	_	0	1	2	_	_	0	0	_	_	_	0	2	2	4		
North Dakota South Dakota	=	0	3	6	1	_	0	1	4	_	-	O	2	3	6		
	17	21	59	717	819	2	4	15	144	123	48	46	180	1.498	1.365		
S. Atlantic Delaware	1	0	1	6	013	_	0	1	2	-	-	0	3	8	16		
District of Columbia		0	2	5	19	_	0	0	-	2	-	2	12	111	75		
Florida	7	11	29	417	435	1	2	8	83	79	26	15	25	533	485		
Georgia	9	7	17	241	274	1	1 0	10	51	42	9	6	153 15	216 204	231		
Maryland ⁹ North Carolina	_	0	o		_	_	0	0	-	_	7	5	23	219	199		
South Carolinas	_	O	0	_	-	_	0	0	*****	_	3	1	10	65	47		
Virginia ⁶	N	0	0	N	N	-	0	0	_	_	3	4	17	137	106		
West Virginia	_	1	17	47	91	_	0	1	8	_		0	2	5	4		
E.S. Central	1	3	9	107	142	1	0	3	23	25	12	16	29 15	530 199	440 196		
Alabama ⁹	N	0	0	N 17	N 27	_	0	0	2	6	_	6	7	38	45		
Kentucky Mississippi	_	0	2	- 17	20	_	0	Ó	_	_	2	2	9	68	4		
Tennessee [§]	1	2	8	90	95	1	0	3	21	19	10	6	14	225	158		
W.S. Central	_	1	10	92	63	-	0	3	15	6	27	32	55	1,097	958		
Arkansas [§]	_	0	1	1	9	_	0	0	_	2	4	1	8	74	46		
Louisiana	-	1	4	47	54	_	0	2	6	4	5	7	29	262 36	160		
Oklahoma	_	0	8	44	=	_	0	2	9		18	21	39	725	70		
Texas ⁹									4.4	24	10	7	19	211	330		
Mountain Arizona	_	1 0	5	41	74	_	0	3	14	31	_	2	19	83	130		
Colorado	_	0	0	_	_	_	0	0		_	_	1	5	22	50		
Idaho ⁶	N	0	Ō	N	N		0	0	_	_		0	1	1			
Montana [§]	-	0	0		-	_	0	0	_	_	_	0 2	1	67	9		
Nevada [§] New Mexico [§]	_	0	3	16	16	_	0	2	5	1	=	1	7	31	4		
Utah		0	5	15	29	_	0	3	8	21	_	0	2	5	1		
Wyoming [§]	_	0	2	10	29	-	0	1	1	9	_	0	1	1	-		
Pacific	_	. 0	0	_	-	_	0	1	1	_	13	38	57	1,203	1,34		
Alaska	_	. 0	0	_	_	-	0		_	-		0	1	4			
California	N		0	N	N	_	0		1	_	1	36	54	1,096	1,18		
Hawaii Oregon [§]	1	0	0	N	N	_	0		1	_	_	. 0	6	11	1		
Washington	N		0	N	N	_	0		_	_	12			87	12		
American Samoa	L		0		U	U			U	U	L	0	0	U			
C.N.M.I.	i		_	Ü	Ü	ŭ	_	-	Ŭ		ŭ	_	_	U			
Guam	1		0		N	-	0		_	_	-	0		3			
Puerto Rico	P	0 1	0	N	N	_	. 0	0	_	-	2	3	11	97	9		

U.S. Virgin islands

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U. Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. includes cases of invasive pneumococcal disease caused by drug-resistant S. pneumoniae (DRSP) (NNDSS event code 11720). Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 25, 2007, and August 26, 2006 (34th Week)*

		Varice	ella (chick	enpox)		West Nile virus disease [†] Neuroinvasive Nonneuroinvasive									e)		
		Previ		unpox)			Prev	-	Previous								
	Current	52 we		Cum	Cum	Current		eeks	Cum	Cum	Current			Cum	Cum		
Reporting area	week	Med	Max	2007	2006	week	Med	Max	2007	2006	week	Med	Max	2007	2006		
United States	148	795	2,813	24,940	31,664	1	1	178	224	1,026	5	2	344	517	1,993		
New England	3	18	124	483	3,155	-	0	3	2	5	_	0	2	1	3		
Connecticut	_	0	76	2	1,112	-	0	3	2	4	-	0	1	1	2		
Maine [¶]	-	0	7	_	171	-	0	0	-	-	_	0	0	-	_		
Massachusetts New Hampshire	2	0	17	215	1,140 241	_	0	0	_	1	-	0	0	_	1		
Rhode Island	_	0	0	-	241	_	0	0	_	_	_	0	0	_	_		
Vermont ¹	1	9	66	266	491	_	0	0	-	_	_	0	0	-	-		
Mid. Atlantic	40	110	195	3,124	3,349		0	11	1	22	_	0	2	-	9		
New Jersey	N	0	0	N	N	_	0	0	_	2	_	0	1	-	2		
New York (Upstate) New York City	N	0	0	N	N	_	0	5	_	7	_	0	1	-	3		
Pennsylvania	40	110	195	3,124	3,349	_	0	2	1	6	_	0	0	_	1		
E.N. Central	17	229	568	7.086	10,394		0	42	9	120		0	31	3	92		
Illinois		2	11	105	97	_	0	24	8	69	_	0	13	3	54		
Indiana	_	0	0	_	_	(MARK)	0	5	_	13	_	0	12	-	19		
Michigan	17	97 107	258 449	2,869 3,327	3,088 6,455	_	0	10	1	14 18	_	0	4	-	5		
Ohio Wisconsin	17	19	80	785	754	_	0	2	1	6	_	0	2	_	6		
W.N. Central	2	32	136	1,216	1,270		0	37	52	174		0		178	384		
lowa	N	0	0	1,216 N	1,270 N	_	0	3/	52	1/4	_	0	64	1/8	13		
Kansas	2	9	52	432	246	_	0	2	3	15	_	Õ	2	3	10		
Minnesota	_	0	0	_	_	_	0	7	11	25	-	0	7	21	29		
Missouri Nebraska [®]	N	16	78 0	640 N	953 N		0	14	2	41 38	_	0	2 38	36	5 155		
North Dakota	14	0	60	84	35		0	3	8	15	_	0	14	55	109		
South Dakota	-	2	15	60	36	-	0	8	25	26	_	0	12	56	63		
S. Atlantic	38	96	239	3.278	3.123		0	2	8	11	Access.	0	7	6	8		
Delaware	_	1	6	24	45	Access	0	0	_	-	_	0	0	_			
District of Columbia		0	8	14	24	****	0	0	_	_	_	0	1	-	1		
Florida Georgia	27 N	16	78 0	834 N	N		0	2	3	3 2	_	0	0	5	4		
Maryland ¹	N	0	0	N	N	_	0	2	_	5	-	0	1	1	1		
North Carolina	_	0	0	_	-	_	0	1	(6000)	-	****	0	0	-	-		
South Carolina® Virginia®	1	18 26	72 190	697 962	811 1,205	_	0	1	1		_	0	0	-	2		
West Virginia	10	23	50	747	1.038	-	0	o	_	1	_	0	0	-	_		
E.S. Central	3	3	571	340	27	_	0	15	20	82	_	0	17	21	66		
Alabama ¹	3	3	571	338	26	-	0	2	6	6	_	O	1	2	_		
Kentucky	N	0	0	N	N	-	0	2	1	1	-	0	1	_			
Mississippi Tennessee ¹	N	0	2	2 N	N	_	0	10	13	64 11	_	0	16	19	63		
											_						
W.S. Central Arkansas ¹	41	181	1,640 105	7,531 530	8,448 614		0	24	22	282 18	_	0	26	14	147		
Louisiana	_	2	11	93	181	_	0	11	1	58	_	0	8	1	51		
Oklahoma	_	0	0	_	_		0	5	7	20	_	0	5	6	10		
Texas*	41	163	1,534	6,908	7,653	-	0	15	11	186	_	0	16	7	81		
Mountain	4	56	131	1,857	1,898	-	0	39	54	272	-	1	176	200	1,083		
Arizona Colorado	_	0 22	62	707	998	_	0	10	10	7		0	14 51	62	205		
Idaho [¶]	N	0	02	N	N	_	0	10	10	126	_	0	93	23	676		
Montana*	_	5	40	286	N	_	0	10	15	9	_	0	9	22	18		
Nevada [¶]		0	1	1	9	-	0	3	1	33	-	0	8	2	75		
New Mexico* Utah	1 3	6 15	37 73	294 551	307 551	_	0	4 7	8	1 41	_	0	15	6	72		
Wyoming*	_	0	11	18	33	_	0	7	6	13	_	0	19	76	28		
Pacific	_	0	9	25	-	1	0	15	56	58	5	0	27	94	201		
Alaska	-	0	9	25	N	_	0	0	-	-	-	0	0	-	-		
California	1000	0	0	-	N	1	0	15	55	55	5	0	22	92	15		
Hawaii Oroganii	-	0	0	- NI	- N	_	0	0		-	-	0	0	-	4		
Oregon ¹ Washington	N	0	0	N	N	-	0	0	1	3	=	0	6	2	4		
	U	0	0	U	U	U	0	0	U	U	U	0	0	U	(
American Samoa C.N.M.I.	U	0	0	U	U	U	0	0	U	U	U	0	0	U	(
Guam	1	6	30	132	160	_	0	0	_	_	_	0	0	_	_		
Puerto Rico	_	13	31	460	398	-	0	0	-		-	0	0		-		
U.S. Virgin Islands	U	0	0	U	U	U	0	0	U	U	U	0	0	U			

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
Incidence data for reporting years 2006 and 2007 are provisional.
Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance), Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.
Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SAR5-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

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Wichita, KS 108 65 31 5 4 3 10	CHARLES THE PARTY			~		_											

Wichita, KS 108 65 31 5 4 3 10

U: Unavailable. —:No reported cases.

"Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

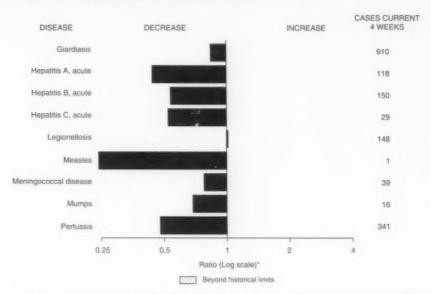
"Pneumonia and influenza.

Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

Because of Hurricane Katrina, weekly reporting of deaths has been temporarily disrupted.

"Total includes unknown ages.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals August 25, 2007, with historical data



^{*} Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

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